

**Homework**

Write the number of tens and the number of ones in each number.

1. 56

\_\_\_\_\_ tens

\_\_\_\_\_ ones

2. 708

\_\_\_\_\_ tens

\_\_\_\_\_ ones

3. 6,170

\_\_\_\_\_ tens

\_\_\_\_\_ ones

Write the number of thousands and the number of hundreds in each number.

4. 4,982

\_\_\_\_\_ thousands

\_\_\_\_\_ hundreds

5. 316

\_\_\_\_\_ thousands

\_\_\_\_\_ hundreds

6. 2,057

\_\_\_\_\_ thousands

\_\_\_\_\_ hundreds

Make a place-value drawing for each number, using ones, quick tens, hundred boxes, and thousand bars.

7. 36

8. 510

9. 403

10. 1,072

# Remembering

Multiply or divide.

1.  $8 \times 3 =$  \_\_\_\_\_

2.  $40 \div 4 =$  \_\_\_\_\_

3.  $27 \div 9 =$  \_\_\_\_\_

4.  $7 \times 6 =$  \_\_\_\_\_

5.  $2 \times 8 =$  \_\_\_\_\_

6.  $6 \times 5 =$  \_\_\_\_\_

Use the diagram to complete Exercises 7–10.



Write two related multiplication problems for the diagram.

7. \_\_\_\_\_

8. \_\_\_\_\_

Write two related division problems for the diagram.

9. \_\_\_\_\_

10. \_\_\_\_\_

11. **Stretch Your Thinking** Marcus says this place value drawing represents the number 4,083. Owen says it represents 483. Which student is correct? Explain the error.




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**Homework**

Read and write each number in standard form.

1.  $90 + 2$  \_\_\_\_\_

2.  $600 + 80 + 9$  \_\_\_\_\_

3.  $2,000 + 800 + 50 + 7$  \_\_\_\_\_

4.  $3,000 + 80 + 5$  \_\_\_\_\_

Read and write each number in expanded form.

5.  $48$  \_\_\_\_\_

6.  $954$  \_\_\_\_\_

7.  $6,321$  \_\_\_\_\_

8.  $4,306$  \_\_\_\_\_

9.  $1,563$  \_\_\_\_\_

10.  $2,840$  \_\_\_\_\_

Read and write each number in word form.

11.  $300 + 20 + 5$  \_\_\_\_\_

12.  $5,000 + 700 + 40 + 8$  \_\_\_\_\_

13.  $9,000 + 400 + 6$  \_\_\_\_\_

Read and write each number in standard form.

14. seventy-six \_\_\_\_\_

15. three hundred one \_\_\_\_\_

16. four thousand, two hundred sixteen \_\_\_\_\_

17. five thousand, one hundred forty-two \_\_\_\_\_

Write the value of the underlined digit.

18.  $\underline{2}87$  \_\_\_\_\_

19.  $8,\underline{7}92$  \_\_\_\_\_

20.  $7,\underline{8}12$  \_\_\_\_\_

## Remembering

Multiply or divide.

1.  $6 \times 4 =$  \_\_\_\_\_

2.  $56 \div 8 =$  \_\_\_\_\_

3.  $45 \div 9 =$  \_\_\_\_\_

4.  $6 \times 6 =$  \_\_\_\_\_

5.  $3 \times 7 =$  \_\_\_\_\_

6.  $48 \div 6 =$  \_\_\_\_\_

7. Grace read six books over the summer. Her sister read three times that number. How many books did Grace's sister read over the summer?

\_\_\_\_\_

Write the number of thousands and the number of hundreds in each number.

8. 5,812

\_\_\_\_\_ thousands

\_\_\_\_\_ hundreds

9. 7,026

\_\_\_\_\_ thousands

\_\_\_\_\_ hundreds

Make a place value drawing for each number, using ones, quick tens, hundred boxes, and thousand bars.

10. 603

11. 3,187

12. **Stretch Your Thinking** Mr. Thomas writes 4,964 on the board. Amy says the value of the underlined digit is 9. Chris said the value is 900. Which student is correct? Explain.

\_\_\_\_\_

\_\_\_\_\_

**Homework**

Round each number to the nearest ten.

1. 46 \_\_\_\_\_

2. 381 \_\_\_\_\_

3. 4,175 \_\_\_\_\_

4. 5,024 \_\_\_\_\_

Round each number to the nearest hundred.

5. 789 \_\_\_\_\_

6. 971 \_\_\_\_\_

7. 2,759 \_\_\_\_\_

8. 3,148 \_\_\_\_\_

Round each number to the nearest thousand.

9. 6,578 \_\_\_\_\_

10. 4,489 \_\_\_\_\_

11. 8,099 \_\_\_\_\_

12. 2,761 \_\_\_\_\_

Compare using  $>$ ,  $<$ , or  $=$ .

13. 4,538 ○ 4,835

14. 3,554 ○ 3,449

15. 1,289 ○ 1,298

16. 7,235 ○ 6,987

17. 4,004 ○ 4,034

18. 5,609 ○ 5,059

Solve.

19. When you round a number, which digit in the number helps you decide to round up or round down? Explain your answer.

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20. When you round a number, what should you do with the digits to the right of the place to which you are rounding?

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# Remembering

Find the unknown number.

1.  $4 \times 8 = \underline{\hspace{2cm}}$

2.  $42 \div 7 = \underline{\hspace{2cm}}$

3.  $63 \div \underline{\hspace{2cm}} = 9$

4.  $\underline{\hspace{2cm}} \times 5 = 40$

5.  $9 \times \underline{\hspace{2cm}} = 81$

6.  $\underline{\hspace{2cm}} \div 6 = 10$

7.  $21 \div 7 = \underline{\hspace{2cm}}$

8.  $10 \times \underline{\hspace{2cm}} = 100$

Write the number of tens and the number of ones in each number.

9. 607

\_\_\_\_\_ tens

\_\_\_\_\_ ones

10. 9,324

\_\_\_\_\_ tens

\_\_\_\_\_ ones

Read and write each number in standard form.

11.  $40 + 3 \underline{\hspace{2cm}}$

12.  $500 + 70 + 9 \underline{\hspace{2cm}}$

13.  $1,000 + 200 + 50 + 8 \underline{\hspace{2cm}}$

14.  $8,000 + 70 + 7 \underline{\hspace{2cm}}$

15. **Stretch Your Thinking** Sara is thinking of a number.

When she rounds her number to the nearest hundred, she gets 700. What is the greatest number Sara can be thinking of? Explain.

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**Homework**

Read and write each number in expanded form.

1. 39,012 \_\_\_\_\_

2. 640,739 \_\_\_\_\_

3. 102,453 \_\_\_\_\_

4. 460,053 \_\_\_\_\_

Read and write each number in word form.

5. 1,000,000

\_\_\_\_\_

6. 730,812

\_\_\_\_\_

7. 45,039

\_\_\_\_\_

8. 600,439

\_\_\_\_\_

Read and write each number in expanded form.

9. nine hundred twenty-three thousand, nine hundred twenty-three

\_\_\_\_\_

10. one hundred forty thousand, one hundred four

\_\_\_\_\_

11. seventy-six thousand, five

\_\_\_\_\_

12. fifty-nine thousand, two hundred sixty-one

\_\_\_\_\_

13. seven hundred thousand, four hundred thirty

\_\_\_\_\_

14. thirty-one thousand, two hundred seventy-nine

\_\_\_\_\_

## Remembering

Use the numbers 7, 9, and 63 to complete the related equations.

1.  $7 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

2.  $9 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

3.  $\underline{\hspace{2cm}} \div \underline{\hspace{2cm}} = 7$

4.  $\underline{\hspace{2cm}} \div \underline{\hspace{2cm}} = 9$

Solve.

5. Aileen made 36 mini muffins for the school bake sale. Each bag holds four mini muffins. How many bags of mini muffins will she have for the bake sale?

\_\_\_\_\_

Read and write each number in expanded form.

6. 86 \_\_\_\_\_

7. 421 \_\_\_\_\_

8. 7,915 \_\_\_\_\_

9. 3,402 \_\_\_\_\_

Write the value of the underlined digit.

10. 489 \_\_\_\_\_

11. 7,493 \_\_\_\_\_

12. 1,506 \_\_\_\_\_

Round each number to the nearest ten.

13. 47 \_\_\_\_\_

14. 6,022 \_\_\_\_\_

Round each number to the nearest hundred.

15. 672 \_\_\_\_\_

16. 3,940 \_\_\_\_\_

17. **Stretch Your Thinking** How many zeros are in the standard form of six hundred thousand, twenty? Explain.

\_\_\_\_\_  
\_\_\_\_\_



**Homework**

Compare using  $>$ ,  $<$ , or  $=$ .

1. 57,068  57,860

2. 24,516  24,165

3. 154,424  145,424

4. 836,245  683,642

5. 89,175  89,175

6. 100,000  1,000,000

Round to the nearest ten thousand.

7. 11,295 \_\_\_\_\_

8. 82,964 \_\_\_\_\_

9. 97,079 \_\_\_\_\_

Round to the nearest hundred thousand.

10. 153,394 \_\_\_\_\_

11. 410,188 \_\_\_\_\_

12. 960,013 \_\_\_\_\_

13. 837,682 \_\_\_\_\_

Solve.

14. What would 672,831 be rounded to the nearest:

a. ten? \_\_\_\_\_

b. hundred? \_\_\_\_\_

c. thousand? \_\_\_\_\_

d. ten thousand? \_\_\_\_\_

e. hundred thousand? \_\_\_\_\_

15. Compare the number 547,237 rounded to the nearest hundred thousand and 547,237 rounded to the nearest ten thousand. Which is the greater number? Write a comparison statement and explain your answer.

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## Remembering

Find the unknown value in the number sentence.

1.  $8 \times k = 16$

$k = \underline{\hspace{2cm}}$

2.  $n \times 9 = 90$

$n = \underline{\hspace{2cm}}$

3.  $35 \div t = 5$

$t = \underline{\hspace{2cm}}$

4.  $p \div 6 = 9$

$p = \underline{\hspace{2cm}}$

Solve.

5. In an arcade game, Nick can earn up to 10 tickets, depending on which slot his coin goes through. If he plays the game six times, what is the greatest number of tickets Nick could earn?

\_\_\_\_\_

Round each number to the nearest thousand.

6. 2,950 \_\_\_\_\_

7. 4,307 \_\_\_\_\_

Read and write each number in word form.

8. 16,977 \_\_\_\_\_

9. 403,056 \_\_\_\_\_

10. **Stretch Your Thinking** Leon says that he can compare numbers in the same way that he alphabetizes words. For example, since the first two letters of *cat* and *cane* are the same, he goes to the next letter to compare. Since *n* comes before *t* in the alphabet, the word *cane* comes first in a dictionary. To compare 64,198 with 641,532, he knows that the first three digits 641 are the same. Then he compares the next digit in each number. Since 9 is greater than 5, the number 64,198 must be greater. Is Leon's way of thinking correct? Explain.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Homework**

Use the information in the table to answer the questions.

**Driving Distances (in miles) between Various Cities in the United States**

	New York, NY	Chicago, IL	Los Angeles, CA
Atlanta, GA	886	717	2,366
Dallas, TX	1,576	937	1,450
Nashville, TN	914	578	2,028
Omaha, NE	1,257	483	1,561
Seattle, WA	2,912	2,108	1,141
Wichita, KS	1,419	740	1,393

1. If you drive from New York to Dallas and then from Dallas to Chicago, how many miles would you drive?

\_\_\_\_\_

2. Which two cities are farther apart in driving distance: Seattle and Los Angeles or Wichita and New York? Use place value words to explain your answer.

\_\_\_\_\_

\_\_\_\_\_

Use any method to add. On another sheet of paper, make a drawing for exercise 5 to show your new groups.

$$\begin{array}{r} 3. \quad 1,389 \\ + 5,876 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 3,195 \\ + 2,674 \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 1,165 \\ + 7,341 \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 2,653 \\ + 4,908 \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad 3,692 \\ + 7,543 \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad 8,598 \\ + 5,562 \\ \hline \end{array}$$

$$\begin{array}{r} 9. \quad 4,295 \\ + 8,416 \\ \hline \end{array}$$

$$\begin{array}{r} 10. \quad 6,096 \\ + 9,432 \\ \hline \end{array}$$

# Remembering

Multiply or divide.

1.  $81 \div 9 = \underline{\hspace{2cm}}$

2.  $7 \times 4 = \underline{\hspace{2cm}}$

3.  $9 \times 3 = \underline{\hspace{2cm}}$

4.  $24 \div 4 = \underline{\hspace{2cm}}$

5. 
$$\begin{array}{r} 7 \\ \times 8 \\ \hline \end{array}$$

6. 
$$\begin{array}{r} 5 \\ \times 7 \\ \hline \end{array}$$

7.  $10 \overline{)80}$

8.  $7 \overline{)42}$

Read and write each number in expanded form.

9. eighty-six thousand, nine hundred twenty-one

\_\_\_\_\_

10. nine hundred twenty thousand, four hundred thirteen

\_\_\_\_\_

Compare using  $>$ ,  $<$ , or  $=$ .

11.  $36,290 \bigcirc 36,290$

12.  $438,000 \bigcirc 43,800$

13.  $298,150 \bigcirc 298,105$

14.  $999,999 \bigcirc 1,000,000$

15. **Stretch Your Thinking** Find the unknown digits in the following addition problem.

$$\begin{array}{r} 3, \square 6 \square \\ + 4, 9 \square 2 \\ \hline \square, 5 3 6 \end{array}$$

**Homework**

Copy each exercise, lining up the places correctly. Then add.

1.  $51,472 + 7,078$

2.  $94,280 + 56,173$

3.  $1,824 + 36,739$

4.  $372,608 + 51,625$

5.  $314,759 + 509,028$

6.  $614,702 + 339,808$

7.  $493,169 + 270,541$

8.  $168,739 + 94,035$

The table shows the surface area of each of the Great Lakes.

Use the data in the table to help answer the following questions.

Lake	Surface Area (square miles)
Erie	9,906
Huron	22,973
Michigan	22,278
Ontario	7,340
Superior	31,700

9. Which is greater, the surface area of Lake Superior, or the sum of the surface areas of Lake Michigan and Lake Erie?

*Show your work.*

\_\_\_\_\_

10. Which two lakes have a combined surface area of 30,313 square miles?

\_\_\_\_\_



**Homework**

Write a number sentence that shows an estimate of each answer. Then write the exact answer.

1.  $69 + 25$  \_\_\_\_\_

2.  $259 + 43$  \_\_\_\_\_

3.  $2,009 + 995$  \_\_\_\_\_

$$\begin{array}{r} 4. \quad 5 \\ \quad 3 \\ \quad 7 \\ + \quad 4 \end{array}$$

$$\begin{array}{r} 5. \quad 38 \\ \quad 54 \\ + \quad 52 \end{array}$$

$$\begin{array}{r} 6. \quad 28 \\ \quad 44 \\ \quad 32 \\ + \quad 46 \end{array}$$

$$\begin{array}{r} 7. \quad 243 \\ \quad 625 \\ + \quad 387 \end{array}$$

$$\begin{array}{r} 8. \quad 154 \\ \quad 131 \\ \quad 204 \\ + \quad 179 \end{array}$$

Solve.

*Show your work.*

9. Paul's stamp collection includes 192 domestic and 811 foreign stamps.

*About* how many domestic and foreign stamps does Paul have altogether?

\_\_\_\_\_

*Exactly* how many domestic and foreign stamps does Paul have altogether?

\_\_\_\_\_

10. Plane A travels 102,495 miles. Plane B travels 91,378 miles. How many miles in all do the two planes travel?

\_\_\_\_\_

Explain how you can use estimation to check that your answer is reasonable.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

## Remembering

What is 362,584 rounded to the nearest:

1. hundred? \_\_\_\_\_

2. thousand? \_\_\_\_\_

3. ten thousand? \_\_\_\_\_

4. hundred thousand? \_\_\_\_\_

Use any method to add.

$$\begin{array}{r} 5. \quad 2,938 \\ + 4,271 \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 8,305 \\ + 1,467 \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad 8,074 \\ + 3,552 \\ \hline \end{array}$$

Copy each exercise, lining up the places correctly. Then add.

8.  $45,296 + 38,302$

9.  $293,017 + 58,226$

10. **Stretch Your Thinking** Luanne estimates the sum of  $39 + 15$  is about  $40 + 15$ , or 55. Jacob estimates the sum of  $39 + 15$  is about  $40 + 20$ , or 60. Which estimate is closer to the exact sum? Explain.

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**Homework****Subtract. Show your new groups.**

$$\begin{array}{r} 1. \quad 7,000 \\ - 3,264 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 9,632 \\ - 3,785 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 8,054 \\ - 1,867 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 4,000 \\ - 2,945 \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 8,531 \\ - 7,624 \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 8,006 \\ - 4,692 \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad 9,040 \\ - 5,712 \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad 6,000 \\ - 5,036 \\ \hline \end{array}$$

$$\begin{array}{r} 9. \quad 7,180 \\ - 4,385 \\ \hline \end{array}$$

$$\begin{array}{r} 10. \quad 6,478 \\ - 3,579 \\ \hline \end{array}$$

$$\begin{array}{r} 11. \quad 9,490 \\ - 5,512 \\ \hline \end{array}$$

$$\begin{array}{r} 12. \quad 5,000 \\ - 3,609 \\ \hline \end{array}$$

**Solve.***Show your work.*

- 13.** A cross-country automobile rally is 1,025 kilometers long. At a stopping place, the leader had traveled 867 kilometers. How far away was the finish line?

\_\_\_\_\_

- 14.** A census counted 5,407 people in Marina's home town. If 3,589 are males, how many are females?

\_\_\_\_\_

- 15.** A construction company is building a stone wall. The finished wall will contain 5,000 stones. So far, 1,487 stones have been placed. How many stones have not been placed?

\_\_\_\_\_

# Remembering

Use any method to add.

$$\begin{array}{r} 1. \quad 6,022 \\ + 1,988 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 4,586 \\ + 1,693 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 8,374 \\ + 3,707 \\ \hline \end{array}$$

The table shows the amount of litter collected from parks across a city on Earth Day each year. Use the data in the table to help answer the following questions.

4. How much litter was collected altogether in 2007 and 2008?
- \_\_\_\_\_

5. Which two years had a combined litter collection of 23,456 pounds?
- \_\_\_\_\_

Litter Collected on Earth Day

Year	Pounds of Litter
2007	8,293
2008	12,104
2009	15,877
2010	11,352

Write an equation that shows an estimate of each answer. Then write the exact answer.

6.  $495 + 812$  \_\_\_\_\_

7.  $7,203 + 299$  \_\_\_\_\_

8.  $2,859 + 6,017$  \_\_\_\_\_

9. **Stretch Your Thinking** Bridget ungrouped 5,000 as shown. Use your understanding of place value to explain how the ungrouped number is equal to 5,000.

$$\begin{array}{r} 4 \ 9 \ 9 \ 10 \\ \cancel{5,000} \\ - 2,896 \\ \hline \end{array}$$

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Homework**

**Subtract. Then use addition to check the subtraction.**

**Show your work.**

1.  $1,400 - 238 = \underline{\hspace{2cm}}$

2.  $1,900 - 1,238 = \underline{\hspace{2cm}}$

Check: \_\_\_\_\_

Check: \_\_\_\_\_

3.  $4,620 - 1,710 = \underline{\hspace{2cm}}$

4.  $5,243 - 2,454 = \underline{\hspace{2cm}}$

Check: \_\_\_\_\_

Check: \_\_\_\_\_

5.  $3,142 - 1,261 = \underline{\hspace{2cm}}$

6.  $2,375 - 896 = \underline{\hspace{2cm}}$

Check: \_\_\_\_\_

Check: \_\_\_\_\_

**Solve.**

*Show your work.*

7. A school library has 1,058 books in its collection.  
The town library has 4,520 books in its collection.  
How many books are there altogether?

\_\_\_\_\_

8. A town official knows how many books the town library has and how many books both libraries have altogether. She wants to know how many books the school library has. How can she use subtraction to find the answer?

\_\_\_\_\_

# Remembering

Copy each exercise, lining up the places correctly. Then add.

1.  $32,418 + 508,182$

2.  $734,150 + 60,382$

Solve.

*Show your work.*

3. The entire fourth grade is made up of 102 boys and 86 girls. *About* how many students are in the fourth grade altogether?

\_\_\_\_\_

*Exactly* how many students are in the fourth grade altogether?

\_\_\_\_\_

Subtract. Show your new groups.

4. 
$$\begin{array}{r} 5,000 \\ - 2,583 \\ \hline \end{array}$$

5. 
$$\begin{array}{r} 8,259 \\ - 3,716 \\ \hline \end{array}$$

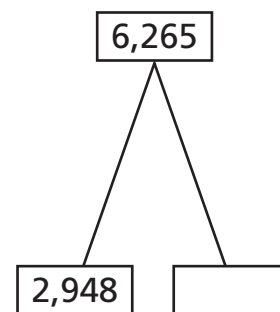
6. 
$$\begin{array}{r} 2,081 \\ - 1,733 \\ \hline \end{array}$$

7. **Stretch Your Thinking** What is the unknown number in this break-apart drawing? List all the addition and subtraction problems for the drawing.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



**Homework****Subtract.**

$$\begin{array}{r} 1. \quad 71,824 \\ - 36,739 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 960,739 \\ - 894,045 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 665,717 \\ - 82,824 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 372,608 \\ - 57,425 \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 597,603 \\ - 404,980 \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 614,702 \\ - 539,508 \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad 724,359 \\ - 99,068 \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad 394,280 \\ - 56,473 \\ \hline \end{array}$$

In an experiment, a scientist counted how many bacteria grew in several labeled dishes. The table shows how many bacteria were in each dish.

Dish	Number of Bacteria
A	682,169
B	694,154
C	57,026
D	150,895
E	207,121

**Solve. Estimate to check.***Show your work.*

9. What was the difference between the greatest number of bacteria and the least number of bacteria?

\_\_\_\_\_

10. How many more bacteria were in dish A than in dish D?

\_\_\_\_\_

11. How many fewer bacteria were in dish E than in the combined dish C and dish D?

\_\_\_\_\_

## Remembering

Write an equation that shows an estimate of each answer. Then write the exact answer.

1.  $503 + 69$  \_\_\_\_\_

2.  $2,825 + 212$  \_\_\_\_\_

3.  $6,190 + 3,858$  \_\_\_\_\_

Subtract. Show your new groups.

$$\begin{array}{r} 4. \quad 8,760 \\ - 1,353 \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 6,000 \\ - 5,258 \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 5,060 \\ - 2,175 \\ \hline \end{array}$$

Subtract. Then use addition to check the subtraction. Show your work.

7.  $6,355 - 891 =$  \_\_\_\_\_

8.  $8,326 - 1,425 =$  \_\_\_\_\_

Check: \_\_\_\_\_

Check: \_\_\_\_\_

9. **Stretch Your Thinking** Write an addition word problem in which the estimated sum is 14,000.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Homework****Solve each problem.***Show your work.*

1. Mr. Chase is ordering 249 pencils, 600 sheets of paper, and 190 erasers. How many more sheets of paper than pencils and erasers altogether is Mr. Chase ordering?
- \_\_\_\_\_

2. There were 623 people at the concert on Friday. On Saturday, 287 more people attended the concert than attended on Friday. How many people in all attended the concert on Friday and Saturday?
- \_\_\_\_\_

**Add or subtract.**

$$\begin{array}{r} 3. \quad 695 \\ + 487 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 8,452 \\ - 5,938 \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 5,895 \\ + 9,727 \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 49,527 \\ - 26,088 \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad 86,959 \\ - 38,486 \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad 39,458 \\ + 98,712 \\ \hline \end{array}$$

$$\begin{array}{r} 9. \quad 286,329 \\ + 394,065 \\ \hline \end{array}$$

$$\begin{array}{r} 10. \quad 708,623 \\ - 421,882 \\ \hline \end{array}$$

$$\begin{array}{r} 11. \quad 952,774 \\ - 613,386 \\ \hline \end{array}$$

# Remembering

Add or subtract.

$$\begin{array}{r} 1. \quad 7,982 \\ - 3,517 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 600,000 \\ - 399,410 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 138,925 \\ + 47,316 \\ \hline \end{array}$$

Subtract. Then use addition to check the subtraction. Show your work.

$$4. \quad 4,652 - 1,593 =$$

\_\_\_\_\_

$$5. \quad 30,000 - 26,931 =$$

\_\_\_\_\_

$$6. \quad 896,581 - 355,274 =$$

\_\_\_\_\_

Check:

\_\_\_\_\_

Check:

\_\_\_\_\_

Check:

\_\_\_\_\_

Subtract.

$$7. \quad 731,285 - 369,114 = \underline{\hspace{2cm}} \quad 8. \quad 645,803 - 52,196 = \underline{\hspace{2cm}}$$

9. **Stretch Your Thinking** Write a two-step problem in which the answer is 130.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



**Homework**

Add or subtract.

1.  $12,673 - 9,717 = \underline{\hspace{2cm}}$     2.  $8,406 + 45,286 = \underline{\hspace{2cm}}$     3.  $2,601 - 1,437 = \underline{\hspace{2cm}}$

Answer each question about the information in the table.

**Area of the Countries of Central America**

Country	Area (square miles)
Belize	8,867
Costa Rica	19,730
El Salvador	8,124
Guatemala	42,042
Honduras	43,278
Nicaragua	49,998
Panama	30,193

4. What is the total area of Guatemala and Honduras?

*Show your work.*

\_\_\_\_\_

5. Which two countries have the least area? What is the sum of their areas?

\_\_\_\_\_

6. Which is greater: the area of Nicaragua or the total area of Costa Rica and Panama?

\_\_\_\_\_

7. How much greater is the area of Honduras than the area of Guatemala?

\_\_\_\_\_

# Remembering

Subtract. Then use addition to check the subtraction.

1.  $1,500 - 705 = \underline{\hspace{2cm}}$

2.  $9,523 - 8,756 = \underline{\hspace{2cm}}$

Check: \_\_\_\_\_

Check: \_\_\_\_\_

The table shows how many fans attended a team's baseball games at the start of the season. Solve.

Estimate to check.

3. How many fewer people attended Game 4 than Game 5?

\_\_\_\_\_

\_\_\_\_\_

Game	Fans
1	68,391
2	42,908
3	9,926
4	35,317
5	46,198

4. What was the difference between the greatest number of fans and the least number at a game?

\_\_\_\_\_

\_\_\_\_\_

Add or subtract.

$$\begin{array}{r} 5. \quad 7,452 \\ + 3,801 \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 2,155 \\ + 5,890 \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad 293,635 \\ - 178,098 \\ \hline \end{array}$$

8. **Stretch Your Thinking** The equation  $32,904 + m = 61,381$  shows that the number of females plus the number of males,  $m$ , living in a certain city equals the total population. Write a subtraction equation that represents the same situation. How many males live in this city?

\_\_\_\_\_

\_\_\_\_\_

# Homework

Companies often use bar graphs to present information to the media or stockholders. Data may show how attendance or profits vary at different times of the year, or compare the successes of different divisions or quarters of the year.

1. Research attendance numbers for your favorite amusement park, sporting team, or movie during five different periods of time. Complete the table with your information.



2. Use the grid below to graph the data in your table.


# Remembering

**Subtract.**

1.  $958,299 - 63,419 =$  \_\_\_\_\_

2.  $9,523 - 8,756 =$  \_\_\_\_\_

**Add or subtract.**

3. 
$$\begin{array}{r} 5,191 \\ + 273 \\ \hline \end{array}$$

4. 
$$\begin{array}{r} 13,687 \\ + 25,137 \\ \hline \end{array}$$

5. 
$$\begin{array}{r} 758,194 \\ - 6,029 \\ \hline \end{array}$$

**Answer each question about the information in the table.**

6. What is the total number of miles the trucker drove in the last 2 years?

\_\_\_\_\_

7. Which is greater, the increase in miles driven between 1998 and 1999 or between 1999 and 2000? What is that increase?

\_\_\_\_\_

**Miles Driven by a Trucker**

Year	Miles
1998	75,288
1999	117,391
2000	126,304
2001	87,192
2002	94,386

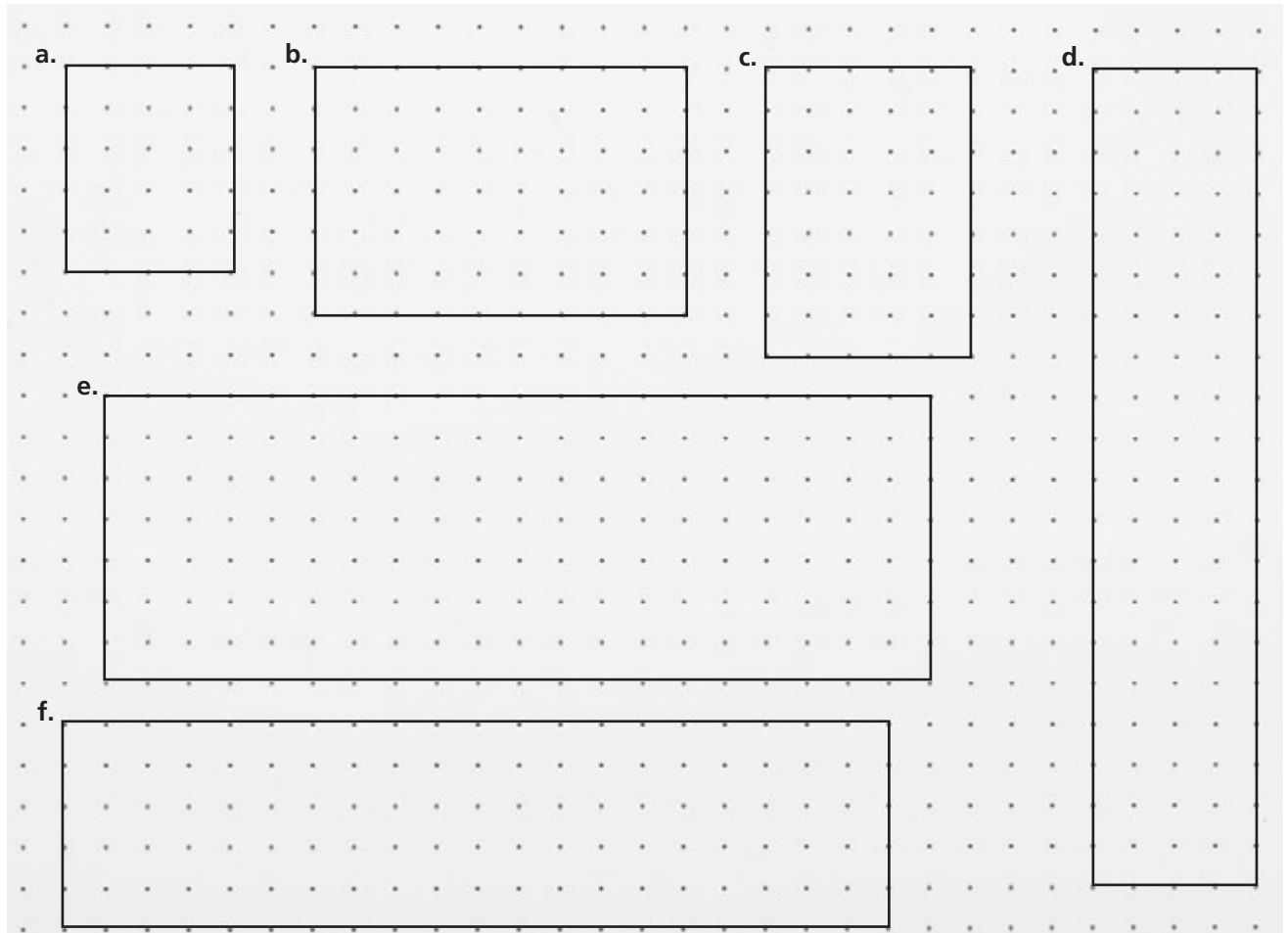
8. **Stretch Your Thinking** Look at the trucking data in the table for Exercises 6 and 7. How would you round the data to make a bar graph? What scale would you use?

\_\_\_\_\_

\_\_\_\_\_

# Homework

1. Label the sides of each rectangle.



2. Write the equation representing the area of each rectangle shown above.

a. \_\_\_\_\_

b. \_\_\_\_\_

c. \_\_\_\_\_

d. \_\_\_\_\_

e. \_\_\_\_\_

f. \_\_\_\_\_

Find the area (in square units) of a rectangle with the given dimensions.

3.  $3 \times 5$  \_\_\_\_\_

4.  $3 \times 50$  \_\_\_\_\_

5.  $30 \times 5$  \_\_\_\_\_

## Remembering

Read and write each number in expanded form.

1. 71 \_\_\_\_\_

2. 298 \_\_\_\_\_

3. 5,627 \_\_\_\_\_

4. 3,054 \_\_\_\_\_

Read and write each number in standard form.

5.  $500 + 80 + 3$

\_\_\_\_\_

6.  $9,000 + 200 + 40 + 1$

\_\_\_\_\_

7. eight hundred seventeen

\_\_\_\_\_

8. one thousand, six hundred forty-six

\_\_\_\_\_

Read and write each number in word form.

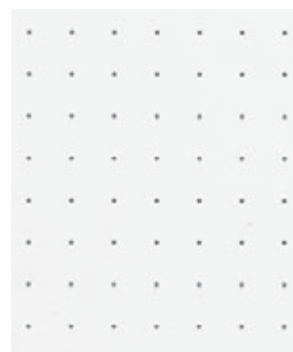
9.  $90 + 7$  \_\_\_\_\_

10.  $300 + 10 + 2$  \_\_\_\_\_

11.  $4,000 + 100 + 80 + 5$  \_\_\_\_\_

12.  $8,000 + 700 + 6$  \_\_\_\_\_

**13. Stretch Your Thinking** Emmy planted onion bulbs in her backyard garden, giving each bulb one square foot of space. She arranged the onion bulbs in a rectangular array of 4 rows with 5 in each row. Make a sketch of Emmy's onion patch. How many onion bulbs did she plant? What is the area of the onion patch? Identify three other rectangular arrangements Emmy could have used to plant these onion bulbs.




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# Homework

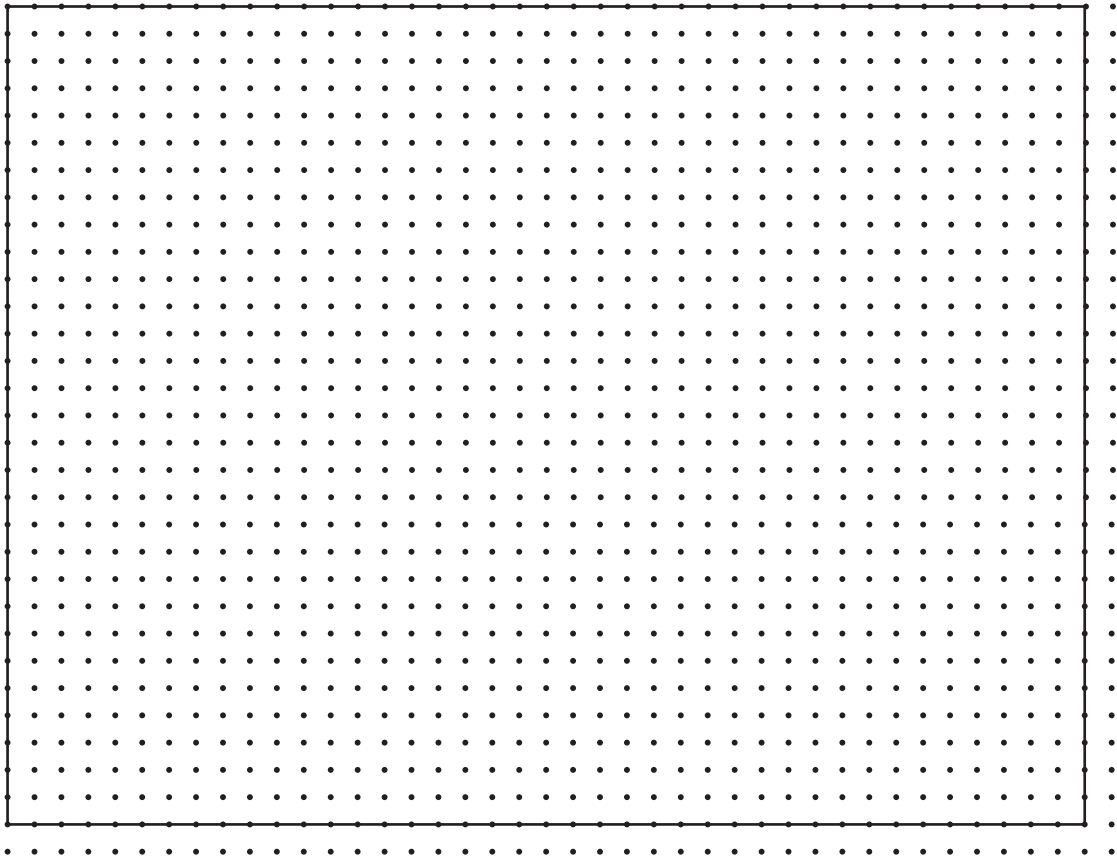
Solve each problem.

1.  $10 \times \underline{\hspace{2cm}} = 3 \text{ tens}$

2.  $10 \times 6 \text{ tens} = \underline{\hspace{2cm}}$

Follow the directions.

3. Divide the  $30 \times 40$  rectangle into 10-by-10 squares of 100 to help find the area.



4. Complete the steps to factor the tens.

$$30 \times 40 = (\underline{\hspace{2cm}} \times 10) \times (\underline{\hspace{2cm}} \times 10)$$

$$= (\underline{\hspace{2cm}} \times \underline{\hspace{2cm}}) \times (10 \times 10)$$

$$= \underline{\hspace{2cm}} \times 100$$

$$= \underline{\hspace{2cm}}$$

5. What is the area of the  $30 \times 40$  rectangle, in square units?

\_\_\_\_\_

## Remembering

Write the number of thousands and the number of hundreds in each number.

1. 4,672

\_\_\_\_\_ thousands

\_\_\_\_\_ hundreds

2. 1,023

\_\_\_\_\_ thousands

\_\_\_\_\_ hundreds

3. 610

\_\_\_\_\_ thousands

\_\_\_\_\_ hundreds

Read and write each number in expanded form.

4. twenty-five thousand, three hundred fifty-one

\_\_\_\_\_

5. five hundred six thousand, five hundred ninety-eight

\_\_\_\_\_

6. nine hundred thirteen thousand, eight hundred twenty-seven

\_\_\_\_\_

Find the area (in square units) of a rectangle with the given dimensions.

7.  $4 \times 6$  \_\_\_\_\_

8.  $4 \times 60$  \_\_\_\_\_

9.  $9 \times 2$  \_\_\_\_\_

10.  $90 \times 2$  \_\_\_\_\_

11.  $3 \times 7$  \_\_\_\_\_

12.  $70 \times 3$  \_\_\_\_\_

13. **Stretch Your Thinking** Li is using place value to multiply  $90 \times 30$ .

$$\begin{aligned} 90 \times 30 &= (9 \times 10) \times (3 \times 10) \\ &= (9 \times 3) \times (10 \times 10) \\ &= 27 \times 10 \\ &= 270 \end{aligned}$$

Is Li's answer correct? Explain.

\_\_\_\_\_

\_\_\_\_\_



**Homework**

Find each product by factoring the tens. Draw rectangles if you need to.

1.  $6 \times 2$ ,  $6 \times 20$ , and  $6 \times 200$

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2.  $4 \times 8$ ,  $4 \times 80$ , and  $4 \times 800$

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---

3.  $5 \times 5$ ,  $5 \times 50$ , and  $5 \times 500$

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4.  $5 \times 9$ ,  $50 \times 9$ , and  $500 \times 9$

---

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5.  $6 \times 5$ ,  $60 \times 5$ , and  $60 \times 50$

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6.  $7 \times 6$ ,  $70 \times 6$ , and  $70 \times 60$

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On a sheet of grid paper, draw two different arrays of connected squares for each total. Label the sides and write the multiplication equation for each of your arrays.

7. 18 squares

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8. 20 squares

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9. 24 squares

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## Remembering

Add or subtract.

$$\begin{array}{r} 1. \quad 2,728 \\ + 7,245 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 83,054 \\ + 1,496 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 27,300 \\ - 9,638 \\ \hline \end{array}$$

Use any method to add.

$$\begin{array}{r} 4. \quad 4,335 \\ + 2,694 \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 3,806 \\ + 8,129 \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 6,401 \\ + 7,763 \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad 9,826 \\ + 8,531 \\ \hline \end{array}$$

Solve each problem.

8.  $10 \times \underline{\hspace{2cm}} = 6 \text{ tens}$

9.  $10 \times 9 = \underline{\hspace{2cm}}$

10.  $\underline{\hspace{2cm}} \times 10 = 2 \text{ tens}$

11.  $\underline{\hspace{2cm}} \times 10 = 5 \text{ tens}$

12.  $10 \times 4 \text{ tens} = \underline{\hspace{2cm}}$

13.  $10 \times \underline{\hspace{2cm}} = 7 \text{ hundreds}$

14.  $10 \times \underline{\hspace{2cm}} = 8 \text{ tens}$

15.  $\underline{\hspace{2cm}} \times 10 = 3 \text{ tens}$

16. **Stretch Your Thinking** Lucas says that since  $40 \times 70$  and  $60 \times 50$  both have factors with a total of two zeros, they will both have products with a total of two zeros. Is he correct? Explain.

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**Homework**

Draw a rectangle. Find the tens product, the ones product, and the total product. The first one is done for you.

1.  $5 \times 39$

$$39 = 30 + 9$$

5	$5 \times 30 = 150$	$5 \times 9 = 45$	$\begin{array}{r} 150 \\ + 45 \\ \hline 195 \end{array}$
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2.  $7 \times 32$

3.  $9 \times 54$

4.  $3 \times 47$

Solve each problem.

*Show your work.*

5. Maria's flower garden is 14 feet long and 3 feet wide. How many square feet is her garden?

\_\_\_\_\_

6. Maria planted 15 trays of flowers. Each tray had 6 flowers in it. How many flowers did she plant?

\_\_\_\_\_

7. Write and solve a multiplication word problem about your family.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

# Remembering

Round each number to the nearest hundred.

1. 283 \_\_\_\_\_

2. 729 \_\_\_\_\_

3. 954 \_\_\_\_\_

Round each number to the nearest thousand.

4. 4,092 \_\_\_\_\_

5. 6,550 \_\_\_\_\_

6. 5,381 \_\_\_\_\_

Compare using  $>$ ,  $<$ , or  $=$ .

7. 92,800 \_\_\_\_\_ 92,830

8. 165,000 \_\_\_\_\_ 156,000

9. 478,390 \_\_\_\_\_ 478,390

10. 736,218 \_\_\_\_\_ 89,479

Find each product by factoring the tens. Draw rectangles if you need to.

11.  $3 \times 2$ ,  $3 \times 20$ , and  $3 \times 200$

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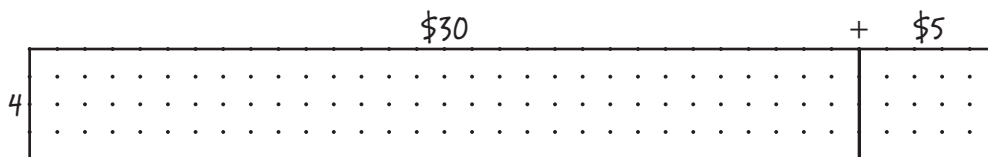
12.  $7 \times 3$ ,  $7 \times 30$ , and  $7 \times 300$

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13. **Stretch Your Thinking** Write a word problem that could be solved using the rectangle model shown. Then solve the problem by finding the tens product, the ones product, and the total product.




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**Homework**

Estimate each product. Solve to check your estimate.

1.  $4 \times 26$

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2.  $5 \times 63$

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3.  $7 \times 95$

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4.  $4 \times 84$

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5.  $2 \times 92$

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6.  $3 \times 76$

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Estimate the answers. Then solve each problem.

*Show your work.*

7. The Bicycling Club is participating in a cycling event. There are 65 teams registered for the event. Each team has a total of 8 cyclists. How many cyclists will participate in the event?

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8. The theater group is making costumes for their play. There are 9 costume changes for each of the 23 performers. How many costumes does the theater group need?

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9. The town library shows 6 different books each day in the display case. The library is open 27 days in one month. How many books does the library need for the display?

---

Write and solve a multiplication word problem.

10. \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

## Remembering

Estimate each sum. Then solve to check your estimate.

1.  $288 + 609$  \_\_\_\_\_

Solve.

*Show your work.*

2. During one weekend, a museum had 7,850 visitors on Saturday and 5,759 visitors on Sunday.

*About* how many visitors were there that weekend?

\_\_\_\_\_

*Exactly* how many visitors were there that weekend?

\_\_\_\_\_

Draw a rectangle model. Find the tens product, the ones product, and the total product.

3.  $7 \times 42$

4.  $5 \times 67$

5. **Stretch Your Thinking** Marcia says she can use *rounding* to find the *exact* product of  $6 \times 75$ . She says that since 75 is halfway between 7 tens and 8 tens, the exact product of  $6 \times 75$  must be halfway between  $6 \times 70$  and  $6 \times 80$ . Is she correct? Explain.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

# Homework

Use the Place Value Sections Method to solve the problem. Complete the steps.

1.  $9 \times 86$  \_\_\_\_\_

$$86 = 80 + 6$$

$9$	$\times$	_____	$=$	_____
-----	----------	-------	-----	-------

$9$	$\times$	_____	$=$	_____
-----	----------	-------	-----	-------

$$+ \begin{array}{r} \underline{\quad} \\ \underline{\quad} \\ \hline \end{array}$$

Use the Expanded Notation Method to solve the problem. Complete the steps.

2.  $4 \times 67$  \_\_\_\_\_

$$67 = 60 + 7$$

$4$	$\times$	_____	$=$	_____
-----	----------	-------	-----	-------

$4$	$\times$	_____	$=$	_____
-----	----------	-------	-----	-------

$$\begin{array}{r} 67 = \underline{\quad} + \underline{\quad} \\ \times 4 = \underline{\quad} \\ \hline \underline{\quad} \times \underline{\quad} = \underline{\quad} \\ \underline{\quad} \times \underline{\quad} = \underline{\quad} \\ \hline \underline{\quad} \end{array}$$

Use any method to solve. Draw a rectangular model to represent the problem.

*Show your work.*

3. Natalia read her new book for 45 minutes each day for one week. How many minutes did she read after 7 days?

\_\_\_\_\_

## Remembering

The table shows the approximate height of the world's five tallest mountain peaks. Use the data in the table to help answer the following questions.

1. How tall are the two tallest mountain peaks combined?

\_\_\_\_\_

2. Which two mountain peaks combined are 56,190 feet tall?

\_\_\_\_\_

Mountain	Height (in feet)
Everest	29,035
K2	28,250
Kangchenjunga	28,169
Lhotse	27,940
Makalu	27,766

**Subtract.**

3.  $586,720 - 293,415 =$  \_\_\_\_\_

4.  $917,336 - 904,582 =$  \_\_\_\_\_

**Estimate each product. Solve to check your estimate.**

5.  $5 \times 39$

\_\_\_\_\_  
\_\_\_\_\_

6.  $6 \times 64$

\_\_\_\_\_  
\_\_\_\_\_

7.  $9 \times 23$

\_\_\_\_\_  
\_\_\_\_\_

8.  $7 \times 48$

\_\_\_\_\_  
\_\_\_\_\_

9. **Stretch Your Thinking** Explain how the Expanded Notation Method is used to multiply  $82 \times 3$ .

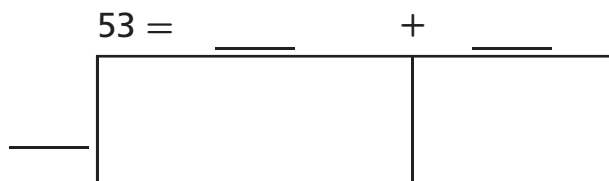
\_\_\_\_\_  
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\_\_\_\_\_



# Homework

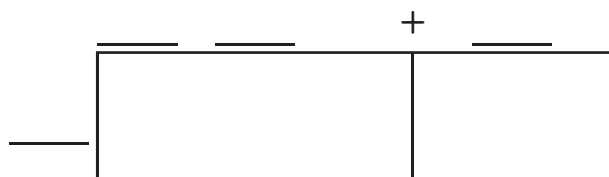
Use the Algebraic Notation Method to solve each problem. Complete the steps.

1.  $7 \cdot 53$  \_\_\_\_\_



$$\begin{aligned} 7 \cdot 53 &= \underline{\hspace{2cm}} \cdot (\underline{\hspace{2cm}} + \underline{\hspace{2cm}}) \\ &= 350 + 21 \\ &= 371 \end{aligned}$$

2.  $4 \cdot 38$  \_\_\_\_\_



$$\begin{aligned} 4 \cdot 38 &= \underline{\hspace{2cm}} \cdot (\underline{\hspace{2cm}} + \underline{\hspace{2cm}}) \\ &= \underline{\hspace{2cm}} + \underline{\hspace{2cm}} \\ &= \underline{\hspace{2cm}} \end{aligned}$$

Draw an area model and use the Algebraic Notation Method to solve the problem.

*Show your work.*

3. Mr. Henderson needs to get plywood to build his flatbed trailer. The flatbed is 8 feet by 45 feet. What is the area of the flatbed Mr. Henderson needs to cover with plywood?

\_\_\_\_\_

## Remembering

Subtract. Show your new groups.

$$\begin{array}{r} 1. \quad 4,000 \\ - 1,946 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 8,441 \\ - 7,395 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 9,340 \\ - 8,614 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 1,587 \\ - 1,200 \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 6,193 \\ - 3,295 \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 4,006 \\ - 2,631 \\ \hline \end{array}$$

Use the Expanded Notation Method to solve the problem.  
Complete the steps.

7.  $5 \times 68$  \_\_\_\_\_

8. **Stretch Your Thinking** Jenna made 6 bracelets using 32 beads each. Kayla made 7 bracelets using 29 beads each. Who used more beads? Use the Distributive Property to solve the problem.

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**Homework**

Use any method to solve. Sketch a rectangle model, if you need to.

1.  $7 \times 62$  \_\_\_\_\_

2.  $6 \times 63$  \_\_\_\_\_

3.  $6 \times 82$  \_\_\_\_\_

4.  $57 \times 7$  \_\_\_\_\_

5.  $5 \times 76$  \_\_\_\_\_

6.  $4 \times 65$  \_\_\_\_\_

7.  $7 \times 83$  \_\_\_\_\_

8.  $36 \times 9$  \_\_\_\_\_

9.  $27 \times 8$  \_\_\_\_\_

Solve each problem.

*Show your work.*

10. 94 people are sitting down to a fancy six-course meal. The first course is soup, which only needs a spoon. The rest of the courses each need fresh forks. How many forks will be used?

\_\_\_\_\_

11. Leo uses plastic letters to make signs. A chain store asks Leo to put signs in front of their 63 stores that say "SALE: HALF PRICE ON ALL DRESSES." How many plastic "S" letters will Leo need?

\_\_\_\_\_

## Remembering

Subtract. Then use addition to check the subtraction.

Show your work.

1.  $6,459 - 921 =$  \_\_\_\_\_

2.  $5,603 - 3,284 =$  \_\_\_\_\_

Check: \_\_\_\_\_

Check: \_\_\_\_\_

3.  $7,863 - 2,734 =$  \_\_\_\_\_

4.  $9,582 - 1,447 =$  \_\_\_\_\_

Check: \_\_\_\_\_

Check: \_\_\_\_\_

Use the Algebraic Notation Method to solve each problem.

Complete the steps.

5.  $4 \cdot 93$  \_\_\_\_\_

6.  $3 \cdot 78$  \_\_\_\_\_

**7. Stretch Your Thinking** Xander says that the Place Value Sections Method, the Expanded Notation Method, and the Algebraic Notation Method of multiplying a one-digit number by a two-digit number are pretty much the same. Do you agree or disagree? Explain.

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**Homework**

Solve, using any numerical method. Use rounding and estimating to see if your answer makes sense.

$$\begin{array}{r} 1. \quad 35 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 79 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 56 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 94 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 68 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 27 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad 82 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad 43 \\ \times 7 \\ \hline \end{array}$$

Solve each problem.

*Show your work.*

9. Describe how you solved one of the exercises above. Write at least two sentences.

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10. Mariko wrote the full alphabet (26 letters) 9 times. How many letters did she write?

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11. Alan has 17 packs of bulletin-board cutouts. Each one contains 9 shapes. How many shapes does he have altogether?

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## Remembering

Add or subtract.

$$\begin{array}{r} 1. \quad 6,095 \\ + 2,382 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 53,894 \\ - 12,914 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 629,137 \\ - 508,978 \\ \hline \end{array}$$

Solve each problem.

*Show your work.*

4. During the first half of a college basketball game, 24,196 people entered the athletic center. During the second half, 2,914 people left and 4,819 people entered. How many people were in the athletic center at the end of the game?

\_\_\_\_\_

5. Miles had three sets of building blocks. His first set had 491 pieces. His second set had 624 pieces. Miles combined his three sets for a total of 1,374 pieces. How many pieces had been in his third set?

\_\_\_\_\_

Use any method to solve. Sketch a rectangle model if you need to.

6.  $6 \times 23$  \_\_\_\_\_

7.  $8 \times 44$  \_\_\_\_\_

8.  $3 \times 95$  \_\_\_\_\_

9. **Stretch Your Thinking** A bookcase has 3 shelves with 38 books each and 4 shelves with 29 books each. How many books are in the bookcase? Use any method to solve. Show your work.

\_\_\_\_\_

**Homework**

Sketch rectangles and solve by any method that relates to your sketch.

1.  $3 \times 687$  \_\_\_\_\_

2.  $8 \times 572$  \_\_\_\_\_

3.  $5 \times 919$  \_\_\_\_\_

4.  $6 \times 458$  \_\_\_\_\_

5. A parking garage charges \$5 per vehicle to park. The garage has 327 spaces for vehicles. If the garage is full, how much money does garage make?

*Show your work.*

\_\_\_\_\_

6. Susie's car can go about 342 miles on one tank of gasoline. She has filled her tank 4 times this month. About how many miles did Susie travel this month?

\_\_\_\_\_

7. Zach filled his albums with 134 pages of trading cards. Each page holds 9 trading cards. How many trading cards does Zach have in his albums?

\_\_\_\_\_

8. Write and solve a multiplication word problem involving a three-digit number.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

## Remembering

Answer each question about the information in the table.

1. What is the combined population of Midborough and Bigville?

\_\_\_\_\_

2. How many more people live in Superburg than in Smalltown?

\_\_\_\_\_

Population of Five Cities	
Smalltown	38,346
Midborough	49,725
Centervale	79,086
Bigville	123,267
Superburg	184,903

Use any method to solve. Sketch a rectangle model, if you need to.

3.  $3 \times 91 =$  \_\_\_\_\_      4.  $7 \times 65 =$  \_\_\_\_\_      5.  $6 \times 84 =$  \_\_\_\_\_

Solve using any numerical method. Use rounding and estimating to see if your answer makes sense.

6. 
$$\begin{array}{r} 45 \\ \times 7 \\ \hline \end{array}$$

7. 
$$\begin{array}{r} 28 \\ \times 9 \\ \hline \end{array}$$

8. 
$$\begin{array}{r} 81 \\ \times 7 \\ \hline \end{array}$$

9. 
$$\begin{array}{r} 56 \\ \times 3 \\ \hline \end{array}$$

10. **Stretch Your Thinking** Whether using the Place Value Sections Method, the Expanded Notation Method, or the Algebraic Notation Method, the same basic steps can be used to multiply a one-digit number by a three-digit number. Put these steps in order by numbering 1 through 3.

\_\_\_\_\_ Add the partial products.

\_\_\_\_\_ Write the three-digit number in expanded form.

\_\_\_\_\_ Multiply the one-digit number by each of the values in expanded form.



**Homework**

**Cross out the extra numerical information and solve.**

*Show your work.*

1. A gymnastic meet is 2 hours long. It has 8 competitors and each competes in 4 events. How many events will be scored?
- \_\_\_\_\_

2. George makes \$20 doing lawn work for 4 hours each week. He wants to buy a \$2,500 used car from his grandmother. He has been saving this money for 30 weeks. How much has he saved?
- \_\_\_\_\_

**Tell what additional information is needed to solve the problem.**

3. Michelle is saving \$20 each week for the bike of her dreams. How long until she can purchase her bike?
- \_\_\_\_\_

4. A teacher sees a sale on packages of pencils. She wants to give each of her students a pencil. How many packages should she buy?
- \_\_\_\_\_

**Solve each problem and label your answer. Write hidden questions if you need to.**

5. There are 18 windows on each side of a rectangular building. It takes the window washer 3 minutes to wash each window. How many minutes will it take to finish the job?
- \_\_\_\_\_

6. The school office prints a newsletter every month that uses 2 pieces of paper. They make 35 copies for each room. How many pieces of paper do they need to print copies for 10 rooms?
- \_\_\_\_\_

# Remembering

Add or subtract.

$$\begin{array}{r} 1. \quad 5,900 \\ - 1,386 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 54,371 \\ + 12,703 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 800,000 \\ - 753,192 \\ \hline \end{array}$$

Solve using any numerical method. Use rounding and estimating to check your work.

$$\begin{array}{r} 4. \quad 83 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 36 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 94 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad 44 \\ \times 8 \\ \hline \end{array}$$

Draw a rectangle model. Solve using any method that relates to the model.

$$8. \quad 6 \times 358 = \underline{\hspace{2cm}}$$

$$9. \quad 4 \times 692 = \underline{\hspace{2cm}}$$

**10. Stretch Your Thinking** Write a word problem that involves multiplication and addition. Include extra numerical information. Solve the problem, showing your work.

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**Homework**

Sketch an area model for each exercise. Then find the product.

1.  $74 \times 92$  \_\_\_\_\_

2.  $65 \times 37$  \_\_\_\_\_

3.  $55 \times 84$  \_\_\_\_\_

4.  $49 \times 63$  \_\_\_\_\_

5.  $34 \times 52$  \_\_\_\_\_

6.  $24 \times 91$  \_\_\_\_\_

7. Write a word problem for one exercise above.

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## Remembering

What is 851,632 rounded to the nearest:

1. hundred? \_\_\_\_\_

2. thousand? \_\_\_\_\_

3. ten thousand? \_\_\_\_\_

4. hundred thousand? \_\_\_\_\_

Compare using  $>$ ,  $<$ , or  $=$ .

5. 58,320 ○ 58,320

6. 642,810 ○ 64,281

7. 427,900 ○ 428,000

8. 71,253 ○ 409,135

Draw a rectangle model. Solve using any method that relates to the model.

9.  $6 \times 358 =$  \_\_\_\_\_

10.  $4 \times 692 =$  \_\_\_\_\_

Tell what additional information is needed to solve the problem.

11. Rosalina knitted 8 scarves for gifts. She used 38 feet of yarn for each scarf. How much did Rosalina spend on the yarn?

\_\_\_\_\_

12. **Stretch Your Thinking** How many smaller rectangles are there in an area model that represents  $27 \times 83$ ? Why? What are their dimensions?

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Homework**

**Multiply using any method. If you use an area model to multiply, show your sketch.**

1.  $45 \times 79$

\_\_\_\_\_

2.  $88 \times 29$

\_\_\_\_\_

3.  $74 \times 57$

\_\_\_\_\_

4.  $84 \times 68$

\_\_\_\_\_

**Mr. Gomez's class is learning about multiplication. The class wants to see what multiplications they can find in their school. Solve each problem.**

5. The class counts 37 tiles across the front of their room and 64 tiles down one side. How many floor tiles are in their classroom?

\_\_\_\_\_

6. The back of their classroom is a brick wall. Down one side, they count 26 rows of bricks. Across the bottom, they count 29 bricks. How many bricks make up the wall?

\_\_\_\_\_

7. In the school, there are 3 classrooms for each grade: kindergarten, 1, 2, 3, 4, 5, and 6. Each classroom has 32 lockers. How many lockers are there in the school building?

\_\_\_\_\_

8. The school auditorium has 69 rows of seats. Each row has 48 seats across. If 6,000 people want to see the school talent show, how many times do the students have to do the show?

\_\_\_\_\_

**Write two multiplication word problems of your own.**

**Then solve each problem.**

9. \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

10. \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

## Remembering

Estimate each sum. Then solve to check your estimate.

1.  $289 + 503$  \_\_\_\_\_

2.  $4,199 + 684$  \_\_\_\_\_

3.  $8,128 + 895$  \_\_\_\_\_

Cross out the extra numerical information and solve.

*Show your work.*

4. Marlene is making 4 batches of muffins for her drama party. Each batch requires 2 cups of flour and makes 24 muffins. How many muffins will Marlene have for the party?

\_\_\_\_\_

5. One pack of batteries costs \$6 and contains 9 batteries. Trevor bought 3 packs of batteries. How much did Trevor spend on batteries?

\_\_\_\_\_

Sketch an area model for each exercise. Then find the product.

6.  $54 \times 38$  \_\_\_\_\_

7.  $49 \times 75$  \_\_\_\_\_

8. **Stretch Your Thinking** Jackson used the Shortcut Method to multiply  $84 \times 37$ . Did he do it correctly? Explain.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

$$\begin{array}{r}
 1 \\
 2 \\
 84 \\
 \times 37 \\
 \hline
 588 \\
 + 252 \\
 \hline
 840
 \end{array}$$

**Homework**

Solve each multiplication problem using any method. Use rounding and estimation to check your work.

1.  $45 \times 61$

\_\_\_\_\_

2.  $24 \times 56$

\_\_\_\_\_

3.  $83 \times 27$

\_\_\_\_\_

4.  $39 \times 48$

\_\_\_\_\_

5.  $36 \times 96$

\_\_\_\_\_

6.  $63 \times 87$

\_\_\_\_\_

7.  $58 \times 79$

\_\_\_\_\_

8.  $15 \times 92$

\_\_\_\_\_

9.  $33 \times 43$

\_\_\_\_\_

10.  $76 \times 29$

\_\_\_\_\_

11.  $69 \times 63$

\_\_\_\_\_

12.  $84 \times 23$

\_\_\_\_\_

## Remembering

Subtract. Then use addition to check the subtraction.  
Show your work.

1.  $8,960 - 1,238 =$  \_\_\_\_\_

2.  $5,418 - 5,269 =$  \_\_\_\_\_

Check: \_\_\_\_\_

Check: \_\_\_\_\_

Sketch an area model for each exercise. Then find the product.

3.  $28 \times 94$  \_\_\_\_\_

4.  $63 \times 88$  \_\_\_\_\_

Use any method to solve. Sketch an area model if you need to.

5.  $66 \times 24$  \_\_\_\_\_

6.  $27 \times 83$  \_\_\_\_\_

7.  $79 \times 35$  \_\_\_\_\_

- 8. Stretch Your Thinking** Kia is printing packets of information. There are 23 pages in a packet, and she needs enough copies for 52 people. Each package of paper contains 200 sheets. She estimates she needs 5 packages of paper to print the packets. Will she have enough paper? Explain.

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**Homework**

Solve using any method and show your work.

Check your work with estimation.

1.  $55 \times 64$

\_\_\_\_\_

2.  $42 \times 67$

\_\_\_\_\_

3.  $59 \times 32$

\_\_\_\_\_

4.  $78 \times 44$

\_\_\_\_\_

5.  $62 \times 23$

\_\_\_\_\_

6.  $53 \times 28$

\_\_\_\_\_

7.  $71 \times 35$

\_\_\_\_\_

8.  $22 \times 66$

\_\_\_\_\_

**Solve.**

*Show your work.*

9. Keesha walks 12 blocks to school every day. One day, she counts 88 sidewalk squares in one block. If each block has the same number of sidewalk squares, how many squares does Keesha walk on as she walks *to* and *from* school each day?

\_\_\_\_\_

10. The Card Collector's Club is having a meeting. Each member brings 25 sports cards to show and trade. If 35 members attend, how many cards do they bring altogether?

\_\_\_\_\_

11. On a separate sheet of paper, write and solve your own multiplication word problem.

\_\_\_\_\_

# Remembering

Add or subtract.

$$\begin{array}{r} 1. \quad 4,659 \\ + 2,047 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 9,380 \\ + 1,599 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 248,266 \\ - 147,852 \\ \hline \end{array}$$

Use any method to solve. Sketch an area model if you need to.

$$4. \quad 26 \times 18$$

\_\_\_\_\_

$$5. \quad 35 \times 64$$

\_\_\_\_\_

$$6. \quad 82 \times 73$$

\_\_\_\_\_

$$7. \quad 91 \times 23$$

\_\_\_\_\_

Solve using any method. Use rounding and estimation to check your work.

$$8. \quad 17 \times 44$$

\_\_\_\_\_

$$9. \quad 62 \times 74$$

\_\_\_\_\_

$$10. \quad 53 \times 89$$

\_\_\_\_\_

$$11. \quad 32 \times 96$$

\_\_\_\_\_

- 12. Stretch Your Thinking** Greyson is planning to lay a brick driveway which will be made up of 84 rows of 14 bricks per row. He will also lay a backyard patio with 25 rows of 31 bricks per row. How many pallets of bricks should Greyson order if each pallet has 1,000 bricks? Show your work.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Homework**

Sketch a rectangle for each problem and solve using any method that relates to your sketch.

1.  $8 \times 6,000$

\_\_\_\_\_

2.  $6 \times 3,542$

\_\_\_\_\_

3.  $7 \times 3,124$

\_\_\_\_\_

4.  $5 \times 7,864$

\_\_\_\_\_

5. A school is participating in a pull tab program to raise money for a local organization. The school puts 1,295 pull tabs in each bag. The school has 7 bags of pull tabs. How many pull tabs has the school collected?

\_\_\_\_\_

6. A dance company has scheduled 4 performances at a theater. The theater has 2,763 seats. Every ticket has been sold for each of the performances. How many tickets were sold in all?

\_\_\_\_\_

7. An amusement park has about 3,600 visitors each day. About how many visitors does the amusement park have in one week?

\_\_\_\_\_

*Show your work*

## Remembering

Add or subtract.

$$\begin{array}{r} 1. \quad 23,152 \\ - 10,894 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 308,000 \\ - 175,296 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 827,381 \\ + 154,338 \\ \hline \end{array}$$

Solve each multiplication problem using any method. Use rounding and estimation to check your work.

$$4. \quad 21 \times 36$$

\_\_\_\_\_

$$5. \quad 48 \times 16$$

\_\_\_\_\_

$$6. \quad 53 \times 99$$

\_\_\_\_\_

$$7. \quad 64 \times 72$$

\_\_\_\_\_

Solve using any method and show your work. Check your work with estimation.

$$8. \quad 45 \times 91$$

\_\_\_\_\_

$$9. \quad 26 \times 33$$

\_\_\_\_\_

$$10. \quad 47 \times 52$$

\_\_\_\_\_

$$11. \quad 87 \times 14$$

\_\_\_\_\_

**12. Stretch Your Thinking** Lily says that  $4 \times 7,000$  has the same product as  $7 \times 4,000$ . Is she correct? Explain using the Associative Property of Multiplication.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Homework**

On a separate sheet of paper, sketch a rectangle for each problem and solve using any method. Round and estimate to check your answer.

1.  $5 \times 4,751$  \_\_\_\_\_

2.  $7 \times 6,000$  \_\_\_\_\_

3.  $6 \times 5,214$  \_\_\_\_\_

4.  $8 \times 3,867$  \_\_\_\_\_

5. Describe the steps you used for one of your solutions to Exercises 1–4.

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**A fourth grade class is counting the supplies in the school's art closet. Help them to finish their count.**

*Show your work.*

6. They have 6 rolls of white craft paper. The paper on the rolls is 1,275 feet long. How many feet of craft paper do they have altogether?

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7. They counted 592 boxes of color pencils and 468 boxes of markers. If each box holds 8 pencils or markers, how many color pencils and markers do they have altogether?

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8. They found 9 boxes of glass beads. There are 1,376 beads per box. How many glass beads do they have in all?

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9. They found 7 cases of sketching paper. If each case has 2,500 sheets of paper, how many sheets of sketching paper do they have in all?

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## Remembering

Add or subtract.

$$\begin{array}{r} 1. \quad 82,905 \\ - 81,927 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 53,742 \\ + 93,587 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 400,000 \\ - 162,947 \\ \hline \end{array}$$

Solve.

*Show your work.*

4. Marta bought 18 sheets of stickers for her sticker album. Each sheet contained 32 stickers. How many stickers did Marta buy for her sticker album?

\_\_\_\_\_

Draw a rectangle model. Solve using any method that relates to the model.

5.  $3 \times 2,816$  \_\_\_\_\_

6.  $7 \times 1,578$  \_\_\_\_\_

7. **Stretch Your Thinking** Zoe rounded  $6 \times 8,493$  to  $6 \times 8,000$ . Andrew rounded  $6 \times 8,493$  to  $6 \times 9,000$ . Who will have an estimate closer to the actual product? How do you know? Explain another way to estimate  $6 \times 8,493$  that would give a better estimate.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Homework**

Solve using any method and show your work. Check your work with estimation.

1.  $6 \times 88$

\_\_\_\_\_

2.  $62 \times 32$

\_\_\_\_\_

3.  $3 \times 3,719$

\_\_\_\_\_

4. 
$$\begin{array}{r} 63 \\ \times 4 \\ \hline \end{array}$$

5. 
$$\begin{array}{r} 523 \\ \times 8 \\ \hline \end{array}$$

6. 
$$\begin{array}{r} 39 \\ \times 19 \\ \hline \end{array}$$

7. 
$$\begin{array}{r} 84 \\ \times 47 \\ \hline \end{array}$$

8. 
$$\begin{array}{r} 2,858 \\ \times 9 \\ \hline \end{array}$$

9. 
$$\begin{array}{r} 541 \\ \times 6 \\ \hline \end{array}$$

**Solve.**

10. Mr. Jackson goes on vacation for 22 days. He pays \$17 each day he is gone for Holly's Home Service to get the mail, walk the dog, and water the plants. How much does Mr. Jackson pay Holly's Home Service for the time he is on vacation?

\_\_\_\_\_

11. A contractor needs to know the area of a sidewalk that is 2,381 feet long and 7 feet wide. What is the area of the sidewalk?

\_\_\_\_\_

## Remembering

Add or subtract.

$$\begin{array}{r} 1. \quad 38,560 \\ + 16,429 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 272,311 \\ - 164,838 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 815,007 \\ + 174,399 \\ \hline \end{array}$$

Draw a rectangle model. Solve using any method that relates to the model.

$$4. \quad 9 \times 4,572 \quad \underline{\hspace{2cm}}$$

$$5. \quad 4 \times 8,386 \quad \underline{\hspace{2cm}}$$

A grocery store clerk is ordering produce for the month. Help him find how many snap peas and garlic bulbs are in his order.

*Show your work.*

6. He orders 4 crates of snap peas. Each crate contains 3,275 snap peas. How many snap peas is he ordering?

\_\_\_\_\_

7. He orders 9 boxes of garlic bulbs. Each box contains 1,930 bulbs of garlic. How many garlic bulbs is he ordering?

\_\_\_\_\_

8. **Stretch Your Thinking** A videographer earns \$485 for every wedding he records and \$18 for every extra copy of the video his customers order. How much money does the videographer earn in a summer during which he records 34 videos and has 87 orders for extra copies? Show your work.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



**Homework**

Solve using any method and show your work. Check your work with estimation.

1.  $3 \times 45$

\_\_\_\_\_

2.  $32 \times 82$

\_\_\_\_\_

3.  $9 \times 2,477$

\_\_\_\_\_

4. 
$$\begin{array}{r} 86 \\ \times 4 \\ \hline \end{array}$$

5. 
$$\begin{array}{r} 419 \\ \times 6 \\ \hline \end{array}$$

6. 
$$\begin{array}{r} 76 \\ \times 39 \\ \hline \end{array}$$

7. 
$$\begin{array}{r} 23 \\ \times 95 \\ \hline \end{array}$$

8. 
$$\begin{array}{r} 6,965 \\ \times 8 \\ \hline \end{array}$$

9. 
$$\begin{array}{r} 746 \\ \times 5 \\ \hline \end{array}$$

**Solve.**

10. Simon makes an array that is 47 units wide and 33 units long. What is the area of Simon's array?

\_\_\_\_\_

11. A farmer plants vegetables in rows. He plants 36 rows of carrots with 13 carrot seeds in each row. How many carrot seeds did the farmer plant?

\_\_\_\_\_

# Remembering

Add or subtract.

$$\begin{array}{r} 1. \quad 563,902 \\ - 153,884 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 327,148 \\ - 123,960 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 650,295 \\ + 101,586 \\ \hline \end{array}$$

Sketch a rectangle model and solve using any method.

Round and estimate to check your answer.

$$4. \quad 6 \times 3,916 \quad \underline{\hspace{2cm}}$$

$$5. \quad 7 \times 2,843 \quad \underline{\hspace{2cm}}$$

Solve using any method and show your work. Check your work with estimation.

$$6. \quad 7 \times 43 \quad \underline{\hspace{2cm}}$$

$$7. \quad 48 \times 26 \quad \underline{\hspace{2cm}}$$

$$8. \quad 4,715 \times 3 \quad \underline{\hspace{2cm}}$$

$$\begin{array}{r} 9. \quad 62 \\ \times 91 \\ \hline \end{array}$$

$$\begin{array}{r} 10. \quad 849 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 11. \quad 5,293 \\ \times 4 \\ \hline \end{array}$$

- 12. Stretch Your Thinking** LaDonne has a budget of \$240 for new school clothes. She needs at least two new shirts, two new pairs of pants, and one new pair of shoes. The shirts cost \$18 each. The pants cost \$32 each. The shoes cost \$49 per pair. Plan two different combinations of numbers of shirts, pants, and shoes that LaDonne could buy within her budget. What is the total cost for each buying plan?

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**Homework**

Divide with remainders.

1.  $5 \overline{)29}$

2.  $8 \overline{)34}$

3.  $9 \overline{)75}$

4.  $2 \overline{)13}$

5.  $4 \overline{)39}$

6.  $4 \overline{)30}$

7.  $7 \overline{)45}$

8.  $6 \overline{)38}$

9.  $5 \overline{)39}$

10.  $3 \overline{)25}$

11.  $4 \overline{)31}$

12.  $9 \overline{)35}$

13.  $4 \overline{)27}$

14.  $8 \overline{)29}$

15.  $7 \overline{)22}$

16.  $3 \overline{)26}$

17.  $6 \overline{)37}$

18.  $8 \overline{)42}$

## Remembering

Write the number of thousands and the number of hundreds in each number.

1. 4,128

\_\_\_\_\_ thousands

\_\_\_\_\_ hundreds

2. 8,395

\_\_\_\_\_ thousands

\_\_\_\_\_ hundreds

3. 612

\_\_\_\_\_ thousands

\_\_\_\_\_ hundreds

Read and write each number in expanded form.

4. 94 \_\_\_\_\_

5. 752 \_\_\_\_\_

6. 3,576 \_\_\_\_\_

7. 8,109 \_\_\_\_\_

Read and write each number in standard form.

8.  $200 + 30 + 7$  \_\_\_\_\_

9.  $5,000 + 800 + 60$  \_\_\_\_\_

10. four hundred sixty-three

\_\_\_\_\_

11. eight thousand, one hundred ten

\_\_\_\_\_

Find the area (in square units) of a rectangle with the given dimensions.

12.  $5 \times 7$  \_\_\_\_\_

13.  $20 \times 3$  \_\_\_\_\_

14.  $3 \times 8$  \_\_\_\_\_

15.  $4 \times 90$  \_\_\_\_\_

16.  $4 \times 4$  \_\_\_\_\_

17.  $30 \times 6$  \_\_\_\_\_

**18. Stretch Your Thinking** Three vocabulary terms for division are shown in the division model. Use these terms to complete the multiplication sentence.

$$\begin{array}{r} \text{quotient} \\ \text{divisor} \overline{) \text{dividend}} \end{array}$$

$$\underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

# Homework

**Solve. Use the Place Value Sections Method for division.**

Charlie has 944 baseball cards in his collection. He places the cards in an album with exactly 4 cards on each page. How many pages does Charlie fill in his baseball card album? 236 pages

$$\begin{array}{r} \underline{200} + \underline{30} + \underline{6} = 236 \text{ pages} \\ 4 \overline{) 944} \\ \underline{-800} \phantom{0} \\ 144 \phantom{0} \\ \underline{-120} \phantom{0} \\ 24 \phantom{0} \\ \underline{-24} \\ 0 \end{array}$$

1. A hardware store has 834 planks of wood to deliver to 6 building sites. If each site gets the same number of planks, how many planks should each building site get? \_\_\_\_\_

$$\begin{array}{r} \underline{\phantom{00}} + \underline{\phantom{0}} + \underline{\phantom{0}} = \underline{\phantom{000}} \\ \phantom{00} \phantom{0} \phantom{0} \end{array}$$

**Solve. Use the Expanded Notation Method for division.**

2. A park planner is designing a rectangular butterfly garden. The plan is for the garden to have an area of 1,917 square feet. If the garden is 9 feet wide, how long is it? \_\_\_\_\_

3. A family drives 1,498 miles from Boston, Massachusetts to Miami, Florida. If they drive the same number of miles each day for 7 days, how many miles will they drive each day? \_\_\_\_\_

$$\overline{\phantom{000}}$$

$$\overline{\phantom{000}}$$

# Remembering

Round each number to the nearest hundred.

1. 591 \_\_\_\_\_

2. 827 \_\_\_\_\_

3. 457 \_\_\_\_\_

Round each number to the nearest thousand.

4. 7,129 \_\_\_\_\_

5. 6,742 \_\_\_\_\_

6. 1,028 \_\_\_\_\_

Draw a rectangle. Find the tens product, the ones product, and the total product.

7.  $4 \times 29$

8.  $8 \times 36$

Divide with remainders.

9.  $7 \overline{)38}$

10.  $4 \overline{)29}$

11.  $3 \overline{)14}$

**12. Stretch Your Thinking** Divide 594 by 3 using the Place Value Sections Method and Expanded Notation Method. Explain how you can check your answer using multiplication.

$$\begin{array}{r} \underline{\quad}00 + \underline{\quad}0 + \underline{\quad} = \underline{\quad} \\ 3 \overline{)594} \end{array}$$

594		
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$$3 \overline{)594}$$

# Homework

Solve. Use the Place Value Sections and the Expanded Notation Methods for division.

1.  $\underline{\quad}0 + \underline{\quad} = \underline{\quad}$

6	564	
---	-----	--

 $6 \overline{)564}$

2.  $\underline{\quad}0 + \underline{\quad} = \underline{\quad}$

7	245	
---	-----	--

 $7 \overline{)245}$

3.  $\underline{\quad},000 + \underline{\quad}00 + \underline{\quad}0 + \underline{\quad} = \underline{\quad}$

5	9,675			
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 $5 \overline{)9,675}$

4.  $\underline{\quad},000 + \underline{\quad}00 + \underline{\quad}0 + \underline{\quad} = \underline{\quad}$

4	9,536			
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 $4 \overline{)9,536}$

## Remembering

Read and write each number in word form.

1. 73,894 \_\_\_\_\_

2. 220,508 \_\_\_\_\_

3. 1,000,000 \_\_\_\_\_

4. 915,007 \_\_\_\_\_

Estimate each product. Solve to check your estimate.

5.  $6 \times 42$

6.  $3 \times 19$

7.  $5 \times 78$

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Solve. Use the Place Value Sections Method and the Expanded Notation Method for division.

8. A ball pit at an entertainment center contains 2,120 balls. The balls are cleaned regularly by a machine which can hold a certain number of balls at once. If the machine must be run 8 times to clean all the balls, how many balls fit in the machine at one time?

\_\_\_\_\_

$$8 \overline{)2,120}$$

8	$\underline{\quad}00$ 2,120	+	$\underline{\quad}0$	+	$\underline{\quad}$	=	$\underline{\quad}$
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9. **Stretch Your Thinking** How many digits will be in the quotient of 588 divided by 6? Use place value to explain.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



**Homework****Divide.**

1.  $6 \overline{)2,142}$

2.  $4 \overline{)886}$

3.  $8 \overline{)576}$

4.  $5 \overline{)8,265}$

5.  $3 \overline{)795}$

6.  $9 \overline{)2,664}$

7.  $6 \overline{)259}$

8.  $7 \overline{)952}$

9.  $3 \overline{)7,459}$

**Solve.***Show your work.*

10. For the school field day, students are divided into 5 same-size teams. Any extra students will serve as substitutes. If 243 students participate, how many students will be on each team? How many substitutes will there be?
- \_\_\_\_\_

11. A fruit stand sells packages containing 1 peach, 1 pear, 1 apple, 1 banana, and 1 mango each. One week they sold a total of 395 pieces of fruit. How many packages did they sell?
- \_\_\_\_\_

# Remembering

Compare using  $>$ ,  $<$ , or  $=$ .

1. 258,800  $\bigcirc$  258,700

2. 142,367  $\bigcirc$  342,367

Use the Algebraic Notation Method to solve the problem.

Complete the steps.

3.  $7 \cdot 28$  \_\_\_\_\_

Solve. Use the Place Value Sections and the Expanded Notation Methods for division.

4. \_\_\_\_\_ 00 + \_\_\_\_\_ 0 + \_\_\_\_\_ = \_\_\_\_\_

$4 \overline{)1,036}$

4	1,036		
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5. **Stretch Your Thinking** Jenna divides 2,506 by 4.

Explain the error in Jenna's solution. Then show the correct solution.

$$\begin{array}{r}
 604 \\
 4 \overline{)2,506} \\
 \underline{-24} \phantom{0} \\
 1 \phantom{0} \\
 \underline{-0} \phantom{0} \\
 16 \\
 \underline{-16} \\
 0
 \end{array}$$

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**Homework**

Use any method to solve.

1.  $5 \overline{)652}$

2.  $4 \overline{)940}$

3.  $6 \overline{)840}$

4.  $7 \overline{)942}$

5.  $5 \overline{)6,502}$

6.  $6 \overline{)8,370}$

7.  $4 \overline{)5,267}$

8.  $8 \overline{)9,161}$

Solve.

9. Joe had 145 peanuts in a bag. He fed all of the peanuts to the 5 squirrels that he saw. If each squirrel got the same number of peanuts, how many peanuts did each squirrel get?

\_\_\_\_\_

10. There were 1,148 students at Jefferson High School who wanted to go on a field trip. Since they could not all go at the same time, they went in 7 equal groups. How many students were in each group?

\_\_\_\_\_

11. A printing company has 1,080 ink cartridges to be packed in 9 shipping boxes. If each box holds the same number of cartridges, how many ink cartridges will be packed in each box?

\_\_\_\_\_

## Remembering

The table shows the water surface area of each of the Great Lakes. Use the data in the table to answer the following questions.

1. What is the combined surface area of the two Great Lakes with the greatest surface area?

\_\_\_\_\_

2. Which is greater, the surface area of Lake Michigan or the sum of the surface areas of Lake Erie and Lake Ontario?

\_\_\_\_\_

Lake	Surface Area (square kilometers)
Erie	25,655
Huron	59,565
Michigan	57,753
Ontario	19,009
Superior	82,097

Use any method to solve. Sketch a rectangle model, if you need to.

3.  $4 \times 39$  \_\_\_\_\_      4.  $3 \times 71$  \_\_\_\_\_      5.  $7 \times 62$  \_\_\_\_\_

Divide. Show your work.

6.  $5 \overline{)1,985}$

7.  $6 \overline{)253}$

8.  $7 \overline{)1,477}$

9. **Stretch Your Thinking** Which method do you prefer for division: the Place Value Sections Method, Expanded Notation Method, or Digit-by-Digit Method? Explain. Then solve  $6,583 \div 4$  using your preferred method.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Homework****Solve.**

1.  $3\overline{)21}$

$3\overline{)22}$

$3\overline{)23}$

$3\overline{)24}$

$3\overline{)25}$

2.  $7\overline{)21}$

$7\overline{)22}$

$7\overline{)23}$

$7\overline{)24}$

$7\overline{)25}$

3. Describe how the repeating pattern in row 1 is different from the pattern in row 2. Explain why.

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**Use any method to solve.**

4.  $9\overline{)2,359}$

5.  $2\overline{)5,389}$

6.  $4\overline{)1,648}$

7.  $5\overline{)1,456}$

8.  $8\overline{)2,506}$

9.  $6\overline{)8,473}$

**Solve.***Show your work.*

10. Mr. James arranged his collection of 861 baseball cards in 7 equal rows. How many cards were in each row?

---

11. A shoe company has 9,728 pairs of shoes to be divided equally among 8 stores. How many pairs of shoes will each store get?

---

## Remembering

Write a number sentence that shows an estimate of each answer. Then write the exact answer.

1.  $413 + 382$  \_\_\_\_\_

2.  $880 + 394$  \_\_\_\_\_

3.  $7,056 + 798$  \_\_\_\_\_

Sketch rectangles and solve by any method that relates to your sketch.

4.  $8 \times 415$  \_\_\_\_\_

5.  $6 \times 853$  \_\_\_\_\_

Use any method to solve.

6.  $7 \overline{)325}$

7.  $5 \overline{)7,390}$

8.  $6 \overline{)9,329}$

9. **Stretch Your Thinking** Toby is choosing from two bead art projects. Project A uses equal numbers of red, black, and green beads totaling 825 beads. Project B uses equal numbers of black, blue, green, and yellow beads totaling 1,020 beads. Toby has 260 green beads and doesn't want to purchase more green beads. Explain which of the two bead projects Toby should choose.

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**Homework****Solve.**

1.  $4 \overline{)21}$

4)  $\overline{22}$

4)  $\overline{23}$

4)  $\overline{24}$

4)  $\overline{25}$

2.  $6 \overline{)21}$

6)  $\overline{22}$

6)  $\overline{23}$

6)  $\overline{24}$

6)  $\overline{25}$

3. Describe how the repeating pattern in row 1 is different from the pattern in row 2. Explain why.

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**Use any method to solve.**

4.  $8 \overline{)6,726}$

5.  $7 \overline{)9,259}$

6.  $3 \overline{)1,504}$

7.  $2 \overline{)8,037}$

8.  $9 \overline{)3,385}$

9.  $5 \overline{)2,347}$

10.  $6 \overline{)9,003}$

11.  $4 \overline{)8,360}$

**Solve.**

12. Altogether, the members of an exercise club drink 840 bottles of water each month. Each member drinks 8 bottles. How many members are there?

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13. There are 7,623 pencils ready to be packaged in boxes at a factory. Each box holds 6 pencils. How many full boxes of pencils can be packaged?

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## Remembering

Subtract. Show your new groups.

$$\begin{array}{r} 1. \quad 5,267 \\ - 1,390 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 9,000 \\ - 2,482 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 6,129 \\ - 5,773 \\ \hline \end{array}$$

Cross out the additional numerical information and solve.

*Show your work.*

4. Rick is selling fresh-squeezed lemonade for \$2 a serving. Rick makes each serving with 2 lemons and 4 tablespoons of sugar. If he sells 27 servings of lemonade, how much sugar does he use?
- \_\_\_\_\_

5. An animal shelter receives 9 large bags of dog food every month for 14 years. Each bag weighs 55 pounds. How many pounds of dog food does the animal shelter receive each month?
- \_\_\_\_\_

Solve using any method.

$$6. \quad 3 \overline{)452}$$

$$7. \quad 8 \overline{)527}$$

$$8. \quad 4 \overline{)3,693}$$

9. **Stretch Your Thinking** What is the greatest remainder you could have with the divisor 3? With the divisor 8? With the divisor 5? Explain.
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_



**Homework**

Solve by any method on a separate sheet of paper.  
Then check your answer by rounding and estimating.

1.  $3 \overline{)246}$

2.  $6 \overline{)75}$

3.  $7 \overline{)60}$

4.  $3 \overline{)256}$

5.  $4 \overline{)805}$

6.  $5 \overline{)927}$

7.  $4 \overline{)325}$

8.  $4 \overline{)378}$

9.  $6 \overline{)432}$

10.  $5 \overline{)1,838}$

11.  $4 \overline{)2,715}$

12.  $7 \overline{)3,042}$

**Solve.**

*Show your work.*

13. The area of Matt's rectangular bedroom is 96 square feet.  
If the room is 8 feet wide, how long is it?

\_\_\_\_\_

14. The fourth-grade students at Lincoln Elementary School are attending an assembly. There are 7 equal rows of seats in the assembly hall. If there are 392 fourth-grade students, how many students will sit in each row?

\_\_\_\_\_

15. Pablo is packing books into crates. He has 9 crates. Each crate will contain the same number of books. If he has 234 books, how many books can he put into each crate?

\_\_\_\_\_

## Remembering

Add or subtract.

$$\begin{array}{r} 1. \quad 1,429 \\ + 3,882 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 28,178 \\ - 13,428 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 500,000 \\ - 61,835 \\ \hline \end{array}$$

Sketch an area model for each exercise. Then find the product.

4.  $27 \times 59$  \_\_\_\_\_

5.  $36 \times 92$  \_\_\_\_\_

Solve using any method.

6.  $9 \overline{)271}$

7.  $6 \overline{)2,436}$

8.  $4 \overline{)2,139}$

- 9. Stretch Your Thinking** Katherine is considering two new cell phone plans. She doesn't want to spend more for minutes she won't use. One plan allows up to 250 minutes per month for \$49, and the other plan allows up to 350 minutes per month for \$65. In the last 6 months, she used 1,470 minutes. Use estimating and an exact answer to determine the best cell phone plan for Katherine.

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**Homework**

**Solve. Write the remainder as a whole number.**

1.  $7 \overline{)7,012}$

2.  $9 \overline{)8,410}$

3.  $2 \overline{)7,825}$

4.  $5 \overline{)3,512}$

5.  $6 \overline{)6,618}$

6.  $8 \overline{)7,225}$

**Solve. Then explain the meaning of the remainder.**

7. Principal Clements wants to buy a pencil for each of the 57 fourth-graders in her school. The pencils come in packages of 6. How many packages does Principal Clements need to buy?

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8. Tyler has 71 CDs in his collection. He places the CDs in a book that holds 4 CDs on each page. If Tyler fills each page, how many CDs will be on the last page?

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9. Amanda and her family are hiking a trail that is 46 miles long. They plan to hike exactly 7 miles each day. How many days will they hike exactly 7 miles?

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10. Cesar makes 123 ounces of trail mix. He puts an equal number of ounces in each of 9 bags. How many ounces of trail mix does Cesar have left over?

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## Remembering

The table shows the word count for each of five books in a series. Use the table to answer each question. Estimate to check.

1. How many more words are there in Book 2 than in Book 1?

\_\_\_\_\_

\_\_\_\_\_

2. What is the difference between the book with the greatest number of words and the book with the least number of words?

\_\_\_\_\_

\_\_\_\_\_

Book	Word Count
1	82,647
2	91,313
3	109,842
4	73,450
5	90,216

Solve each multiplication problem using any method. Use rounding and estimation to check your work.

3.  $39 \times 52$

\_\_\_\_\_

4.  $81 \times 76$

\_\_\_\_\_

5.  $18 \times 63$

\_\_\_\_\_

6.  $45 \times 91$

\_\_\_\_\_

Solve using any method. Then check your answer by rounding and estimating.

7.  $7 \overline{)65}$

8.  $3 \overline{)289}$

9.  $8 \overline{)5,024}$

10. **Stretch Your Thinking** Write a word problem that is solved by  $43 \div 5 = 8 \text{ R}3$ , in which the remainder is the only part needed to answer the question.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Homework**

When the Kent Elementary School fourth-grade classes were studying butterflies, they took a field trip to a butterfly garden.

**Use the correct operation or combination of operations to solve each problem.**

*Show your work.*

1. Nine buses of students, teachers, and parents went on the field trip. If 5 of the buses held 63 people each and the other buses held 54 people each, how many people went in all?

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2. Some female butterflies lay their eggs in clusters. If one kind of butterfly lays 12 eggs at a time and another kind lays 18 eggs at a time, how many eggs would 8 of each kind of butterfly lay?

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3. Teachers divided students into groups of 3. Each group of 3 wrote a report that had 9 pictures in it. The students used 585 pictures altogether. How many students were there in all?

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4. Driving to and from the butterfly garden took 45 minutes each way. The students spent 3 hours in the garden and 30 minutes eating lunch. If the groups left the school at 9:00 A.M., what time did they get back?

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## Remembering

Add or subtract.

$$\begin{array}{r} 1. \quad 5,833 \\ - 2,159 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 49,802 \\ + 15,658 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 98,139 \\ - 27,345 \\ \hline \end{array}$$

Sketch rectangles and solve by any method that relates to your sketch.

4.  $5 \times 6,294$  \_\_\_\_\_

5.  $8 \times 1,375$  \_\_\_\_\_

Solve. Then explain the meaning of the remainder.

6. Vince has 138 artist trading cards. He is arranging them in an album that can hold 4 to a page. If Vince fills each page as he goes, how many cards are on the last page?

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7. Amber is doing an online math drill program. She has exactly 300 seconds to complete as many problems as she can. If it takes Amber 7 seconds to do each problem, how many problems does she complete?

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8. **Stretch Your Thinking** In the fall, Wesley swam a race in 58 seconds, and Aiden swam it in 54 seconds. In the spring, they swam the same race. Wesley did it in 53 seconds, and Aiden did it in 52 seconds. How much more of an improvement was one boy's race time over the other boy's race time? Explain.

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**Homework****Divide.***Show your work.*

1.  $5 \overline{)456}$

2.  $4 \overline{)1,247}$

3.  $7 \overline{)829}$

4.  $6 \overline{)2,254}$

5.  $3 \overline{)729}$

6.  $8 \overline{)658}$

7.  $9 \overline{)4,437}$

8.  $5 \overline{)3,649}$

9.  $6 \overline{)875}$

**Solve.***Show your work.*

10. Sharon has 1,278 beads to make bracelets. She sorts them into 6 different containers so she can have an equal amount of beads in each container. How many beads will Sharon put in each container?
- 

11. Kyle collects baseball cards. He places his cards into an album that has 9 cards on each page. He has a total of 483 baseball cards. He fills each page before putting cards on the next page. How many cards will be on the last page?
-

## Remembering

Answer each question about the information in the table.

1. What was the total amount donated to the theatre in 2007 and 2009 combined?

\_\_\_\_\_

2. How much more was donated in 2010 than in 2006?

\_\_\_\_\_

**Donations to a Children's Theatre**

Year	Donations
2006	\$26,304
2007	\$28,315
2008	\$63,418
2009	\$53,237
2010	\$86,061

Solve using any method and show your work.

Check your work with estimation.

3.  $26 \times 6$  \_\_\_\_\_

4.  $932 \times 7$  \_\_\_\_\_

5.  $2,107 \times 8$  \_\_\_\_\_

Use the correct operation or combination of operations to solve the problem.

*Show your work.*

6. Selena sold 9 homemade bracelets for \$12 each and 14 pairs of earrings for \$8 each. How much did she make in sales?

\_\_\_\_\_

7. **Stretch Your Thinking** At a skating rink, Emma makes 21 laps at a steady pace during a 5-minute song. She divided  $21 \div 5 = 4 \text{ R}1$  and says that means she did  $4 + 1 = 5$  laps each minute. Explain Emma's error.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



**Homework**

Simplify each expression.

1.  $11m - 9m = \underline{\hspace{2cm}}$

2.  $y + 8y = \underline{\hspace{2cm}}$

3.  $13s - s = \underline{\hspace{2cm}}$

4.  $d + 2d + d = \underline{\hspace{2cm}}$

5.  $(9b - b) - 2b = \underline{\hspace{2cm}}$

6.  $104z + z = \underline{\hspace{2cm}}$

7.  $21 - (10 - 5) = \underline{\hspace{2cm}}$

8.  $(900 - 100) - 100 = \underline{\hspace{2cm}}$

9.  $90 - (50 - 1) = \underline{\hspace{2cm}}$

10.  $18 \div (27 \div 9) = \underline{\hspace{2cm}}$

11.  $(63 \div 7) \div 9 = \underline{\hspace{2cm}}$

12.  $40 \div (36 \div 9) = \underline{\hspace{2cm}}$

13.  $(48 \div 6) \cdot (11 - 9) = \underline{\hspace{2cm}}$

14.  $(3 + 17) \div (16 - 12) = \underline{\hspace{2cm}}$

15.  $(15 + 10) - (50 \div 10) = \underline{\hspace{2cm}}$

16.  $(19 + 11) \div (9 - 6) = \underline{\hspace{2cm}}$

Evaluate.

17.  $c = 3$

$4 \cdot (7 - c)$

\_\_\_\_\_

18.  $r = 2$

$(42 \div 7) \cdot (r + 1)$

\_\_\_\_\_

19.  $w = 7$

$(72 \div 9) \cdot w$

\_\_\_\_\_

20.  $m = 0$

$(12 \div 3) \cdot (5 - m)$

\_\_\_\_\_

21.  $h = 14$

$45 \div (h - 5)$

\_\_\_\_\_

22.  $p = 19$

$(p + 1) \div (9 - 4)$

\_\_\_\_\_

23.  $v = 6$

$(18 - 9) + (2 + v)$

\_\_\_\_\_

24.  $t = 1$

$(7 \cdot 2) \div t$

\_\_\_\_\_

25.  $g = 10$

$(g + 90) \div (17 - 13)$

\_\_\_\_\_

Solve for  $\square$  or  $n$ .

26.  $7 \cdot (3 + 2) = 7 \cdot \square$

$\square = \underline{\hspace{2cm}}$

27.  $(9 - 1) \cdot 4 = \square \cdot 4$

$\square = \underline{\hspace{2cm}}$

28.  $8 \cdot (4 + 5) = \square \cdot 9$

$\square = \underline{\hspace{2cm}}$

29.  $6 \cdot (8 - 8) = n$

$n = \underline{\hspace{2cm}}$

30.  $(12 - 6) \div 3 = n$

$n = \underline{\hspace{2cm}}$

31.  $(21 \div 7) \cdot (5 + 5) = n$

$n = \underline{\hspace{2cm}}$

## Remembering

Read and write each number in expanded form.

1. ninety-six thousand, one hundred thirty-seven

\_\_\_\_\_

2. four hundred thirteen thousand, five hundred twenty-one

\_\_\_\_\_

3. seven hundred eight thousand, fifty-three

\_\_\_\_\_

4. six hundred thirty thousand, four hundred seventeen

\_\_\_\_\_

Find the area (in square units) of a rectangle with the given dimensions.

5.  $4 \times 6$  \_\_\_\_\_

6.  $4 \times 60$  \_\_\_\_\_

7.  $5 \times 9$  \_\_\_\_\_

8.  $50 \times 9$  \_\_\_\_\_

Divide with remainders.

9.  $9 \overline{)28}$

10.  $3 \overline{)17}$

11.  $6 \overline{)46}$

12.  $7 \overline{)54}$

13. **Stretch Your Thinking** Evaluate the expression  $(d - 10) + (d \div 3)$  for  $d = 21$ . Explain each step.

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**Homework**

Write = or  $\neq$  to make each statement true.

1.  $5 + 2 + 6 \bigcirc 6 + 7$

2.  $90 \bigcirc 110 - 9$

3.  $70 \bigcirc 30 + 30$

4.  $70 \bigcirc 95 - 25$

5.  $2 + 8 + 10 \bigcirc 30$

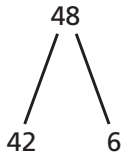
6.  $27 - 10 \bigcirc 14 + 3$

7.  $51 + 99 \bigcirc 150$

8.  $35 \bigcirc 100 - 55$

9.  $50 \bigcirc 20 + 5 + 20$

10. Write the eight related addition and subtraction equations for the break-apart drawing.




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Write an equation to solve the problem. Draw a model if you need to.

*Show your work.*

11. There were some people at the arts and crafts fair. Then 347 people went home. Now 498 people are left at the fair. How many people were at the fair to start?

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12. A group of scientists spends 3,980 hours observing the behavior of monarch butterflies. They spend some more hours recording their observations. Altogether, the scientists spend 5,726 hours observing the butterflies and recording their observations. How many hours do the scientists spend recording their observations?

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## Remembering

Solve.

1. What is 538,152 rounded to the nearest:

a. hundred? \_\_\_\_\_

b. thousand? \_\_\_\_\_

c. ten thousand? \_\_\_\_\_

d. hundred thousand? \_\_\_\_\_

Draw a rectangle model. Find the tens product, the ones product, and the total product.

2.  $3 \times 65$

3.  $8 \times 29$

Evaluate each expression.

4.  $(12 - 4) \cdot (6 + 3) =$  \_\_\_\_\_

5.  $(8 \div 2) + (12 - 2) =$  \_\_\_\_\_

6. **Stretch Your Thinking** There were 381 books sold at a children's used book fair. At the end of the day, there were still 493 books remaining. Samantha says there were 112 books at the start of the book fair. Explain her error. How many books were there at the start of the book fair?

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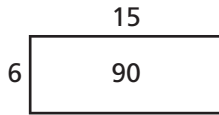
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**Homework**

1. Write the eight related multiplication and division equations for the rectangle model below.



\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Solve each equation.

2.  $r = 200 \div 5$

$r =$  \_\_\_\_\_

3.  $12 \times d = 84$

$d =$  \_\_\_\_\_

4.  $80 \div 10 = n$

$n =$  \_\_\_\_\_

5.  $120 = 10 \times m$

$m =$  \_\_\_\_\_

6.  $88 = 8 \times c$

$c =$  \_\_\_\_\_

7.  $100 \div q = 20$

$q =$  \_\_\_\_\_

Write an equation to solve the problem. Draw a model if you need to.

8. Lucy bought some shrubs to plant in her garden. Each shrub cost \$9. If Lucy spent \$216 in all, how many shrubs did she buy?

*Show your work.*

\_\_\_\_\_

\_\_\_\_\_

9. Jeremiah has 592 flyers in stacks of 8 flyers each. How many stacks of flyers did Jeremiah make?

\_\_\_\_\_

\_\_\_\_\_

10. The apples from an average-sized tree will fill 20 baskets. If an orchard has 17 average-sized trees, how many baskets of apples can it produce?

\_\_\_\_\_

\_\_\_\_\_

# Remembering

Use the Algebraic Notation Method to solve the problem.  
Complete the steps.

1.  $5 \cdot 68$  \_\_\_\_\_

$$68 = \underline{\quad} + \underline{\quad}$$

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$$\begin{aligned} 5 \cdot 68 &= \underline{\quad} \cdot (\underline{\quad} + \underline{\quad}) \\ &= 300 + 40 \\ &= 340 \end{aligned}$$

Solve. Use the Place Value Sections and the Expanded Notation Methods for division.

2.  $\underline{\quad}0 + \underline{\quad} =$

234	
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$3 \overline{)234}$

3.  $\underline{\quad}0 + \underline{\quad} =$

468	
-----	--

$9 \overline{)468}$

Write = or  $\neq$  to make each statement true.

4.  $40 + 40 \bigcirc 90$

5.  $12 - 4 \bigcirc 12 + 4$

6.  $4 + 7 \bigcirc 4 + 2 + 5$

7.  $26 \bigcirc 30 - 4$

8.  $8 + 10 + 2 \bigcirc 20$

9.  $85 - 25 \bigcirc 65$

10. **Stretch Your Thinking** Write a word problem about puzzle pieces using the equation  $9 \times p = 450$ . Then solve the equation.

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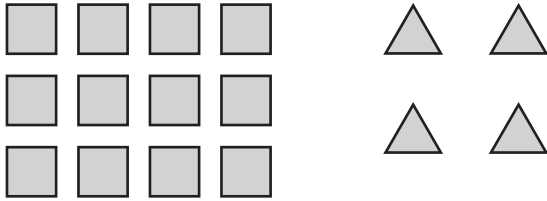
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# Homework

Use the shapes to answer Exercises 1–4.



1. How many squares? How many triangles?  
Use multiplication to find the answers.

\_\_\_\_\_

2. Because  $4 \times \underline{\hspace{2cm}} = 12$ , there are  $\underline{\hspace{2cm}}$  times as many squares as triangles.

3. Write a multiplication equation that compares the number of squares  $s$  to the number of triangles  $t$ .

\_\_\_\_\_

4. Write a division equation that compares the number of triangles  $t$  to the number of squares  $s$ .

\_\_\_\_\_

**Solve each comparison problem.**

5. Stephen and Rocco were playing a video game. Stephen scored 2,500 points which is 5 times as many points as Rocco scored. How many points did Rocco score?

\_\_\_\_\_

6. Nick's dog weighs 72 pounds. Elizabeth's cat weighs 9 pounds. How many times as many pounds does Nick's dog weigh as Elizabeth's cat weighs?

\_\_\_\_\_

# Remembering

Solve using any numerical method. Use rounding and estimating to see if your answer makes sense.

$$\begin{array}{r} 1. \quad 71 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 36 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 94 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 77 \\ \times 6 \\ \hline \end{array}$$

Divide.

$$5. \quad 6 \overline{)89}$$

$$6. \quad 5 \overline{)485}$$

$$7. \quad 4 \overline{)743}$$

Solve each equation.

$$8. \quad 9 \times n = 108$$

$$9. \quad 40 \div t = 10$$

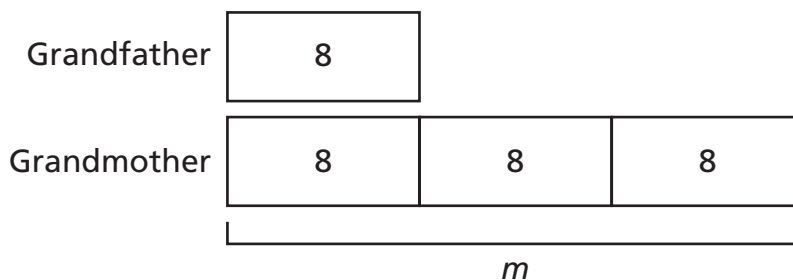
$$10. \quad r = 56 \div 7$$

$$n = \underline{\hspace{2cm}}$$

$$t = \underline{\hspace{2cm}}$$

$$r = \underline{\hspace{2cm}}$$

11. **Stretch Your Thinking** Write and solve a word problem to match the comparison bars shown below.




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**Homework**

**Write and solve an equation to solve each problem.  
Draw comparison bars when needed.**

*Show your work.*

1. This year, a business had profits of \$8,040. This is 4 times as great as the profits that the business had last year. What were last year's profits?
- 

2. In July, 74,371 people visited an art museum. In August 95,595 people visited the art museum. How many fewer people visited the art museum in July than in August?
- 

3. Drake has 36 animal stickers. Brenda has 9 animal stickers. How many times as many animal stickers does Drake have as Brenda has?
- 

4. A game is being watched by 60 adults and some children. If there are 20 more adults than children, how many children are watching the game?
- 

5. During the first lunch period, 54 students ate hot lunch. This is 9 fewer students than ate hot lunch during the second lunch period. How many students ate hot lunch during the second lunch period?
- 

6. The Jenkins Family traveled 750 miles by car during the summer. The Palmer Family traveled 3 times as many miles by car this summer. How many miles did the Palmer Family travel?
-

## Remembering

Copy each exercise, aligning the places correctly. Then add.

1.  $11,931 + 3,428$

2.  $25,422 + 89,360$

Draw a rectangle model. Solve using any method that relates to the model.

3.  $3 \times 428$  \_\_\_\_\_

4.  $7 \times 519$  \_\_\_\_\_

Write and solve an equation to solve the problem.

Draw comparison bars if you need to.

5. Virginia sold 84 rolls of wrapping paper this year. She sold 3 times as many rolls of wrapping paper this year as she sold last year. How many rolls of wrapping paper did Virginia sell last year?

\_\_\_\_\_

6. **Stretch Your Thinking** There are 1,438 boys and 1,196 girls at a school. How many fewer girls are there than boys?

Write the comparison question for this problem in a different way. Then write and solve an equation to solve the problem. Draw comparison bars if you need to.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

# Homework

The graph below shows the amount of snow recorded each month last winter. Use the graph for Problems 1–6.

1. During which month was the amount of snow recorded 12 inches greater than the amount of snow recorded in December?

\_\_\_\_\_

2. How many fewer inches of snow were recorded in March than were recorded in February?

\_\_\_\_\_

3. The total amount of snow shown in the graph is 4 times as much snow as was recorded during the winter of 2004. How much snow was recorded during the winter of 2004?

\_\_\_\_\_

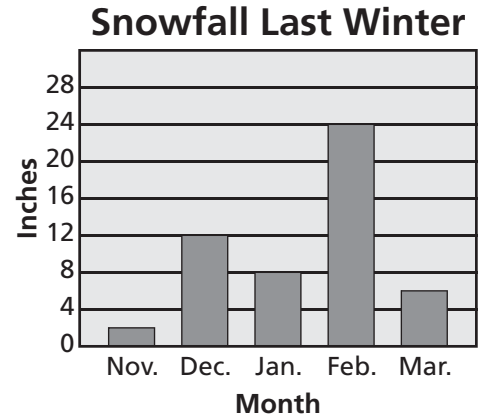
4. Write an addition equation and a subtraction equation that compare the number of inches of snow recorded during December ( $d$ ) to the number of inches of snow recorded during March ( $m$ ).

\_\_\_\_\_

5. Write a multiplication equation and a division equation that compare the number of inches of snow recorded during November ( $n$ ) to the number of inches of snow recorded during January ( $j$ ).

\_\_\_\_\_

6. On a separate sheet of paper, write a sentence about the graph that contains the words *times as much*.



# Remembering

Sketch an area model for each exercise. Then find the product.

1.  $28 \times 45$  \_\_\_\_\_

2.  $53 \times 96$  \_\_\_\_\_

Solve using any method.

3.  $9 \overline{)506}$

4.  $2 \overline{)538}$

5.  $7 \overline{)8,165}$

Write and solve an equation to solve each problem.  
Draw comparison bars when needed.

*Show your work.*

6. Benjamin received 52 emails at work today. This is 4 times as many emails as he received yesterday. How many emails did Benjamin receive yesterday?

\_\_\_\_\_

7. There are 327 third-grade students on a field trip at the history museum. There are 423 fourth-grade students on the same field trip. How many fewer third-grade students are there than fourth-grade students on the field trip?













\_\_\_\_\_


8. **Stretch Your Thinking** Look at the graph. Tatiana says there are 4 more dog owners than fish owners in the classroom. Explain Tatiana's error. Then write an equation that compares the numbers of dog owners and fish owners in the classroom.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Pet Owners in the Classroom	
Pet	
Cat	  
Bird	
Dog	     
Fish	 

 = 2 students

**Homework**

Use an equation to solve.

*Show your work.*

1. The soccer club has 127 members. The baseball club has 97 members. Both clubs will meet to discuss a fundraiser. The members will be seated at tables of 8 members each. How many tables will they use?  
\_\_\_\_\_
2. A hardware store pays \$3,500 for 42 lawnmowers. Then the store sells the lawnmowers for \$99 each. How much profit does the store make from the lawnmower sales?  
\_\_\_\_\_
3. George buys a set of 224 stamps. He gives 44 stamps to a friend. Then he places the remaining stamps into an album with 5 stamps on each page. How many pages does he fill in his album?  
\_\_\_\_\_
4. Shane and his family go to the movie theater and buy 6 tickets for \$12 each. Then they spend a total of \$31 for popcorn and drinks. How much did Shane and his family spend for tickets, popcorn and drinks at the movie theater?  
\_\_\_\_\_
5. Last year, 226 people attended the school graduation ceremony. This year, the school expects 125 more people than last year. The school has arranged for a van to transport people from the parking area to the ceremony. Each van holds 9 people. How many trips will the van make?  
\_\_\_\_\_

## Remembering

Solve each multiplication problem, using any method.

Use rounding and estimation to check your work.

1.  $22 \times 58$

2.  $34 \times 91$

3.  $63 \times 72$

4.  $17 \times 56$

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Solve by using any method. Then check your answer by rounding and estimating.

5.  $9 \overline{)39}$

6.  $4 \overline{)168}$

7.  $5 \overline{)4,204}$

The graph shows the number of points Derek scored during his first five basketball games.

8. Write a multiplication equation and a division equation that compare the number of points Derek scored during Game 1 ( $x$ ) to the number of points Derek scored during Game 4 ( $y$ ).

\_\_\_\_\_

9. **Stretch Your Thinking** There will be 138 people at a fundraising auction. Each table seats six. An additional 3 tables are needed to display the auction items. What is the minimum number of tables that are needed for the fundraiser? Which equation *cannot* be used to answer this question? Explain.

$138 \div (6 + 3) = t$

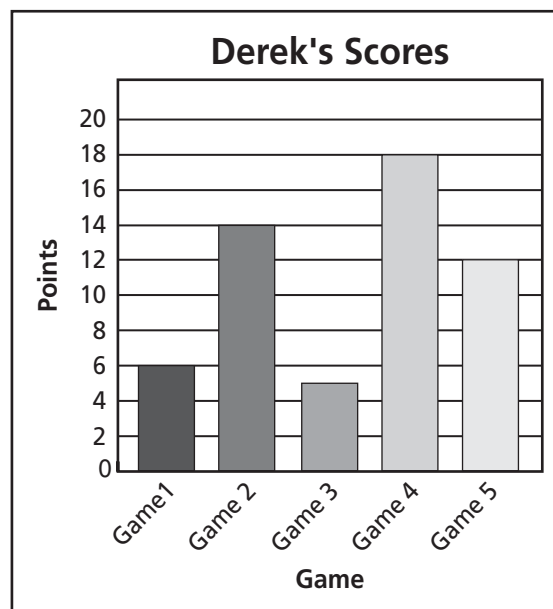
$(138 \div 6) + 3 = t$

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



**Homework**

Use an equation to solve.

*Show your work.*

1. Rosa and Kate both went shopping. Kate bought a jacket for \$45 and boots for \$42. Rosa bought jeans for \$27, a sweater for \$22, and sneakers. They both spent the same exact amount of money. How much were Rosa's sneakers?
- 

2. Kyle works at a bakery on weekends. On Saturday, Kyle needs to make 120 muffins. Each recipe makes 8 muffins and uses 2 cups of flour. On Sunday, he needs to bake a large batch of cookies that uses 6 cups of flour. How many cups of flour will Kyle use to bake the muffins and the cookies?
- 

3. A toy factory made 715 small stuffed bears and packed them in boxes with 5 bears in each box. Then they made 693 large stuffed bears and packed them in boxes with 3 bears in each box. All the boxes of small and large stuffed bears are loaded into a truck for delivery. How many boxes are loaded into the truck?
- 

4. Last summer, Chris went to Europe and bought postcards from the cities he visited. In France, he visited 6 cities and bought 11 postcards in each city. In Italy, he visited 7 cities and bought 9 postcards in each city. In Spain, he visited 10 cities and bought 15 postcards in each city. How many postcards did Chris buy in Europe?
- 

5. Three fourth grade classes went on a field trip to see a play. Each class had 19 students and 2 adults attending. The rows in the playhouse each seat 9 people. How many rows did the fourth grade classes and adults take up at the playhouse?
-

# Remembering

Add or subtract.

$$\begin{array}{r} 1. \quad 9,000 \\ - 5,613 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 317,492 \\ + 36,057 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 659,741 \\ - 652,438 \\ \hline \end{array}$$

Solve. Then explain the meaning of the remainder.

4. Jessica needs to bake 50 muffins.  
Her baking pan holds 12 muffins.  
How many rounds of baking will she  
need to do?

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Use an equation to solve.

*Show your work.*

5. At the fair, Hannah bought her family 5 hot dogs for \$3 each and a pitcher of lemonade for \$6. How much money did she spend in all?

---

6. Reggie is keeping 7 of his 31 stuffed animals and splitting the remainder of his collection evenly among his 3 younger sisters. How many stuffed animals does each sister get?

---

7. **Stretch Your Thinking** Write a word problem using the equation  $(\$60 + \$3 - \$15) \div \$4 = w$ . Then solve the equation to solve the problem.

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**Homework**

Solve each problem.

1.  $5 \times 7 + 9 = t$

\_\_\_\_\_

2.  $9 \times (1 + 3) = m$

\_\_\_\_\_

3.  $7 - 2 \times 2 = k$

\_\_\_\_\_

4.  $(7 \times 2) + (4 \times 9) = w$

\_\_\_\_\_

5.  $(7 - 2) \times (3 + 2) = r$

\_\_\_\_\_

6.  $8 \times (12 - 7) = v$

\_\_\_\_\_

7. Whitney and Georgia are at the snack bar buying food for their family. Sandwiches cost \$4 each. Salads cost \$2 each. How much money will it cost them to buy 5 sandwiches and 7 salads?

\_\_\_\_\_

8. Lisa put tulips and roses into vases. Each vase has 12 flowers. The red vase has 7 tulips. The blue vase has twice as many roses as the red vase. How many roses are in the blue vase?

\_\_\_\_\_

9. Pam has 9 bags of apples. Each bag contains 6 apples. There are 3 bags of red apples and 1 bag of green apples. The rest of the bags contain yellow apples. How many more yellow apples are there than red apples?

\_\_\_\_\_

10. Clay works on a farm. He packaged eggs into containers that hold 1 dozen eggs each. He filled 4 containers with white eggs and 5 containers with brown eggs. How many eggs did Clay collect? Hint: one dozen eggs = 12 eggs

\_\_\_\_\_

## Remembering

Subtract. Show your new groups.

$$\begin{array}{r} 1. \quad 3,146 \\ - 1,960 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 7,504 \\ - 2,738 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 6,000 \\ - 5,241 \\ \hline \end{array}$$

Solve using any method and show your work.

Use estimation to check your work.

$$4. \quad 23 \times 88$$

\_\_\_\_\_

$$5. \quad 71 \times 49$$

\_\_\_\_\_

$$6. \quad 62 \times 67$$

\_\_\_\_\_

$$7. \quad 15 \times 38$$

\_\_\_\_\_

Use an equation to solve.

8. An audio book is made up of 8 CDs. Each of the first 7 CDs is 42 minutes long and the final CD is 26 minutes long. Mark plans to listen to the book the same number of minutes for 8 days. How many minutes each day will Mark listen to the audio book?
- \_\_\_\_\_

9. **Stretch Your Thinking** A sign shows the price per pound for several bulk food items. Use the information to write a word problem that requires at least 3 steps to solve. Then solve your problem
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

Food Item	Cost per pound
mixed nuts	\$5
dried fruit	\$3
snack mix	\$7
wild rice	\$2
red lentils	\$4

**Homework**

List all the factor pairs for each number.

1. 49

\_\_\_\_\_

2. 71

\_\_\_\_\_

3. 18

\_\_\_\_\_

4. 57

\_\_\_\_\_

Write whether each number is *prime* or *composite*.

5. 50

\_\_\_\_\_

6. 29

\_\_\_\_\_

7. 81

\_\_\_\_\_

8. 95

\_\_\_\_\_

9. 19

\_\_\_\_\_

10. 54

\_\_\_\_\_

Tell whether 6 is a factor of each number. Write *yes* or *no*.

11. 6

\_\_\_\_\_

12. 80

\_\_\_\_\_

13. 36

\_\_\_\_\_

14. 72

\_\_\_\_\_

Tell whether each number is a multiple of 8. Write *yes* or *no*.

15. 64

\_\_\_\_\_

16. 32

\_\_\_\_\_

17. 88

\_\_\_\_\_

18. 18

\_\_\_\_\_

Use the rule to complete the pattern.

19. Rule: skip count by 11

11, 22, \_\_\_\_\_, \_\_\_\_\_, 55, \_\_\_\_\_, \_\_\_\_\_, 88, 99

20. Rule: skip count by 9

9, \_\_\_\_\_, 27, \_\_\_\_\_, 45, \_\_\_\_\_, 63, \_\_\_\_\_, 81, \_\_\_\_\_

21. Rule: skip count by 8

8, 16, 24, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, 64, 72, \_\_\_\_\_

## Remembering

Draw a rectangle model. Solve using any method that relates to the model.

1.  $8 \times 1,593$  \_\_\_\_\_

2.  $3 \times 6,247$  \_\_\_\_\_

Use the correct operation or combination of operations to solve the problem.

3. Melina has 4 sheets of wacky face stickers with 24 stickers on each sheet. Melina cuts each sticker individually from the sheet. She then divides them evenly into 3 piles to give to friends. How many stickers are in each pile?

\_\_\_\_\_

Solve.

4.  $5 \times 4 + 7 = g$  \_\_\_\_\_

5.  $(3 \times 7) + (2 \times 10) = h$  \_\_\_\_\_

6.  $16 - (5 \times 3) = m$  \_\_\_\_\_

7.  $(9 - 3) \times (2 + 7) = l$  \_\_\_\_\_

8.  $(12 - 8) + (3 \times 3) = p$  \_\_\_\_\_

9.  $(24 \div 4) + 19 = t$  \_\_\_\_\_

10. **Stretch Your Thinking** Use *prime* or *composite* to complete the sentence. Then explain your choice.

All even numbers greater than 2 are \_\_\_\_\_.

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**Homework**

Use the rule to find the next three terms in the pattern.

1. 2, 6, 18, 54, ...

Rule: multiply by 3

\_\_\_\_\_

2. 115, 145, 175, 205, 235, ...

Rule: add 30

\_\_\_\_\_

Use the rule to find the first ten terms in the pattern.

3. First term: 12

Rule: add 25

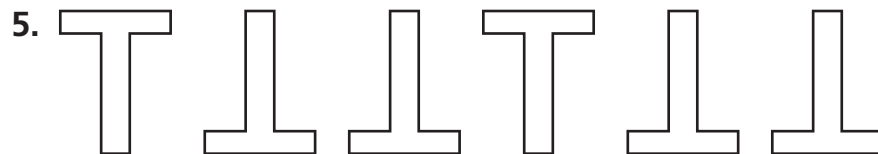
\_\_\_\_\_

Make a table to solve.

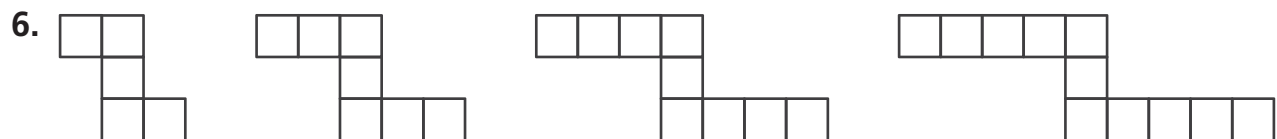
4. Jay saves \$2 in June, \$4 in July, \$6 in August, and \$8 in September. If the pattern continues, how much money will Jay save in December?

\_\_\_\_\_

Describe the next term of each pattern.



\_\_\_\_\_



\_\_\_\_\_

\_\_\_\_\_

## Remembering

**Subtract.**

$$\begin{array}{r} 1. \quad 491,562 \\ - 208,723 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 392,119 \\ - 48,319 \\ \hline \end{array}$$

**Solve.**

*Show your work.*

3. Sid unpacks 8 cartons of paper clips. Each carton contains 3,500 paper clips. How many paper clips is this altogether?

\_\_\_\_\_

4. Camille unpacks 102 boxes of red pens and 155 boxes of blue pens. Each box contains 8 pens. How many pens does she unpack altogether?

\_\_\_\_\_

**List all of the factor pairs for each number.**

5. 55 \_\_\_\_\_

6. 14 \_\_\_\_\_

7. **Stretch Your Thinking** During the first week of the year, Angelina's dad gives her \$10 and says that he will give her \$10 more each week for the rest of the year. At the end of the year, how much money will Angelina receive from her dad? (Hint: 1 year = 52 weeks) Make a table to show the pattern, and explain your answer.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

# Homework

1. Design the blank pot below by drawing a pattern that meets the following conditions.
  - ▶ At least three different shapes are used.
  - ▶ The pattern begins with a square or a circle.
  - ▶ The pattern is repeated at least two times.
  - ▶ At least two different colors are used.



2. Describe your pattern.

---

---

3. Suppose 184 students from Wilson Middle School complete this page at home. If each student draws 9 shapes on his or her pot, how many shapes in all would be drawn?

---

## Remembering

Add or subtract.

$$\begin{array}{r} 1. \quad 8,500 \\ - 1,265 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 24,187 \\ - 14,856 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 683,519 \\ + 292,744 \\ \hline \end{array}$$

Solve using any method and show your work. Check your work with estimation.

$$\begin{array}{r} 4. \quad 19 \\ \times 82 \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 649 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 2,934 \\ \times 8 \\ \hline \end{array}$$

Use the rule to find the next five terms in the pattern.

7. 3, 6, 12, 24, ...

Rule: multiply by 2

\_\_\_\_\_

8. 25, 60, 95, 130, ...

Rule: add 35

\_\_\_\_\_

Use the rule to find the first ten terms in the pattern.

9. First term: 18

Rule: add 12

\_\_\_\_\_

**10. Stretch Your Thinking** For a cookie exchange, Kaiya bakes 2 pans of 12 chocolate chip cookies each, 3 pans of 16 lemon drops each, and 4 pans of 10 peanut butter cookies each. She is dividing the cookies into 8 tins, with an equal number of each type of cookie in each tin. How many of each type of cookie will be in each tin? How many cookies in all will be in each tin? Explain.

\_\_\_\_\_

\_\_\_\_\_

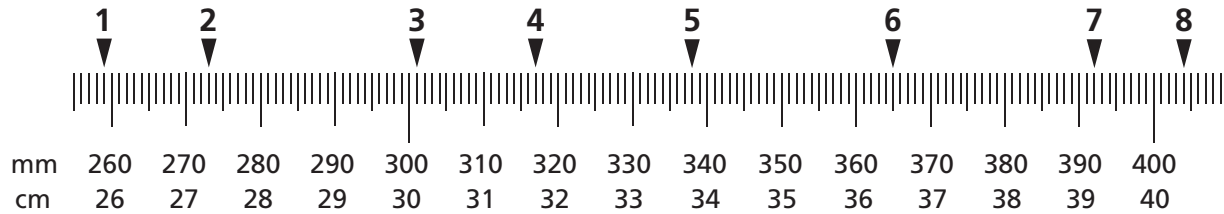
\_\_\_\_\_

\_\_\_\_\_



# Homework

Write each measurement in millimeters (mm). Round the measurement to the nearest centimeter (cm).



1. \_\_\_\_\_ mm rounds to \_\_\_\_\_ cm      2. \_\_\_\_\_ mm rounds to \_\_\_\_\_ cm  
 3. \_\_\_\_\_ mm rounds to \_\_\_\_\_ cm      4. \_\_\_\_\_ mm rounds to \_\_\_\_\_ cm  
 5. \_\_\_\_\_ mm rounds to \_\_\_\_\_ cm      6. \_\_\_\_\_ mm rounds to \_\_\_\_\_ cm  
 7. \_\_\_\_\_ mm rounds to \_\_\_\_\_ cm      8. \_\_\_\_\_ mm rounds to \_\_\_\_\_ cm

Write a number sentence to answer each question.

9. How many meters are equal to 7 kilometers?

\_\_\_\_\_

10. How many centimeters are equal to 4 meters?

\_\_\_\_\_

11. How many millimeters are equal to 15 centimeters?

\_\_\_\_\_

12. How many millimeters are equal to 12 meters?

\_\_\_\_\_

13. How many centimeters are equal to 2 kilometers?

\_\_\_\_\_

**Solve.**

*Show your work.*

14. Chester has a ribbon that is 2 meters long. He wants to cut it into 5 equal pieces. How many centimeters long will each piece be?

\_\_\_\_\_  
 \_\_\_\_\_

# Remembering

Add or subtract.

$$\begin{array}{r} 1. \quad 7,295 \\ + 2,941 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 84,366 \\ - 20,472 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 541,000 \\ - 181,276 \\ \hline \end{array}$$

Divide with remainders.

$$4. \quad 4 \overline{)31}$$

$$5. \quad 6 \overline{)44}$$

$$6. \quad 9 \overline{)32}$$

Evaluate.

$$7. \quad t = 5$$

$$(9 + t) \div 2$$

\_\_\_\_\_

$$8. \quad k = 25$$

$$k \div (10 \div 2)$$

\_\_\_\_\_

$$9. \quad p = 3$$

$$(6 + p) \cdot (15 - 11)$$

\_\_\_\_\_

$$10. \quad g = 2$$

$$(g \div 2) \cdot 8$$

\_\_\_\_\_

$$11. \quad r = 5$$

$$(15 - r) \cdot (9 - 3)$$

\_\_\_\_\_

$$12. \quad x = 1$$

$$(2 \cdot 8) \div (4 \div x)$$

\_\_\_\_\_

**13. Stretch Your Thinking** Kyle says the number is greater when an object is measured in centimeters than in millimeters. Is Kyle correct? Explain.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Homework****Complete.**

1. How many milliliters are equal to 3 L?

\_\_\_\_\_

2. How many milliliters are equal to 35 L?

\_\_\_\_\_

3. How many grams are in 40 kg?

\_\_\_\_\_

4. How many grams are in 5,000 kg?

\_\_\_\_\_

**Solve.**

*Show your work.*

5. Every morning for breakfast, Mika drinks 20 cL of orange juice. How many milliliters of orange juice does she drink each day?

\_\_\_\_\_

6. Angie's puppy weighed 3 kg when she first got it. Two years later, it weighed 9 kg. How many grams did the puppy gain?

\_\_\_\_\_

7. Write and solve two word problems: one that involves converting units of liquid volume and one that involves converting units of mass.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## Remembering

Solve. Use the Place Value Sections Method and the Expanded Notation Method for division.

1. A coin candy machine contains 5,696 pieces of candy. With each quarter, a customer receives 8 pieces of candy. How many customers can use the candy machine before it must be refilled?

$$8 \overline{)5,696}$$

\_\_\_\_\_

_____00	+	_____0	+	_____	=	_____
8	5,696					

Write an equation to solve the problem. Draw a model if you need to.

2. At the library one day, 1,742 books were checked out in the morning. Some more books were checked out in the afternoon. Altogether that day, 2,563 books were checked out. How many books were checked out of the library in the afternoon?

\_\_\_\_\_

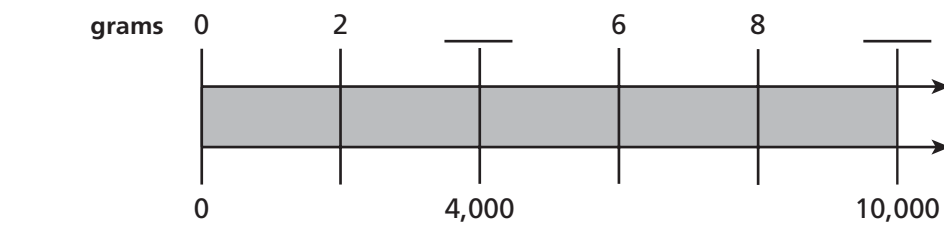
\_\_\_\_\_

Write a number sentence to answer the question.

3. How many centimeters are equal to 6 meters?

\_\_\_\_\_

4. **Stretch Your Thinking** Complete the double number line.



# Homework

Convert each measurement.

1. 45 min = \_\_\_\_\_ sec

2. 2 hr = \_\_\_\_\_ min

3. 3 years = \_\_\_\_\_ weeks

4. 1 day = \_\_\_\_\_ min

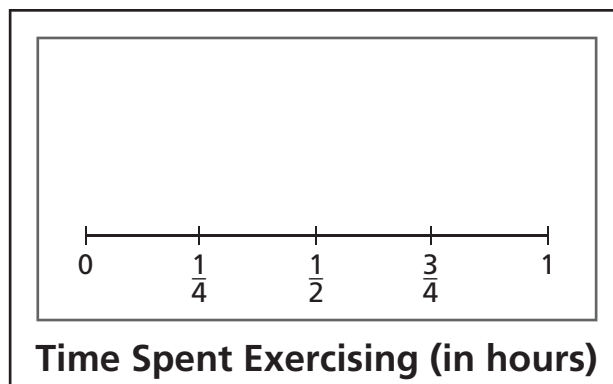
5. 6 weeks = \_\_\_\_\_ days

6. 18 days = \_\_\_\_\_ hours

Complete the line plot. Answer the questions using the line plot.

7. Melissa asked her classmates how much time they spend each day exercising. The table shows the data Melissa collected. Complete the line plot using the data from the table.

Time	Number
0 hour	0
$\frac{1}{4}$ hour	4
$\frac{1}{2}$ hour	3
$\frac{3}{4}$ hour	6
1 hour	2



- a. How many more students exercised for  $\frac{3}{4}$  hour than  $\frac{1}{4}$  hour? \_\_\_\_\_
- b. How many students did Melissa ask about how much time they exercise? \_\_\_\_\_

**Solve.**

8. Donald takes the bus to work. The bus ride is 37 minutes long. Donald gets on the bus at 7:22. At what time does Donald get off the bus?
- \_\_\_\_\_

9. Kinesha started her homework at 6:15. She finished at 7:32. How long did it take Kinesha to do her homework?
- \_\_\_\_\_

## Remembering

Solve. Use the Place Value Sections and the Expanded Notation Methods for division.

1.  $\underline{\quad}00 + \underline{\quad}0 + \underline{\quad} = \underline{\quad}$

5	1,895		
---	-------	--	--

$$5 \overline{)1,895}$$

Solve each equation.

2.  $180 \div m = 3$

$m = \underline{\quad}$

3.  $r \times 9 = 108$

$r = \underline{\quad}$

4.  $350 \div 7 = p$

$p = \underline{\quad}$

Complete.

5. How many grams are equal to 8 kilograms?

\_\_\_\_\_

6. How many milliliters are equal to 14 centiliters?

\_\_\_\_\_

7. How many milligrams are equal to 200 grams?

\_\_\_\_\_

Solve.

*Show your work.*

8. A full box of paperclips weighs 150 grams. People use some paperclips from the box, and it now weighs 138 grams. How many milligrams lighter is the box?

\_\_\_\_\_

9. **Stretch Your Thinking** Cassie and her family go to a restaurant for dinner. They leave their house at 5:25 and arrive at the restaurant at 5:53. They leave the restaurant at 7:09. How long does it take for the family to arrive at the restaurant? How many minutes pass from the time they leave their house to the time they leave the restaurant?

\_\_\_\_\_

**Homework**

Complete the tables.

1.

Yards	Inches
3	
6	
9	
12	

2.

Miles	Feet
2	
3	
4	
5	

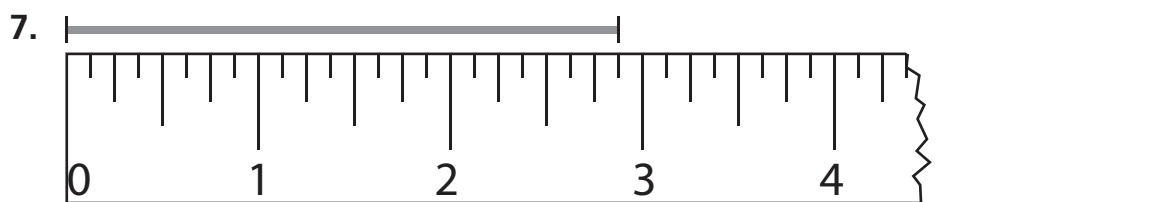
Solve.

3. 4 ft = \_\_\_\_\_ in.

4. 3 miles = \_\_\_\_\_ yards

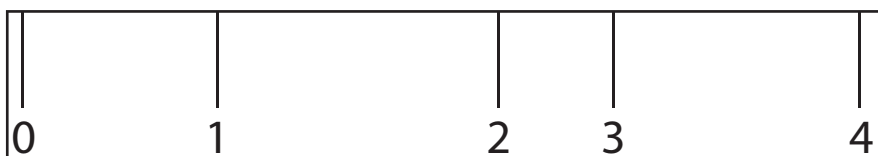
5. 11 yd = \_\_\_\_\_ ft

6. 26 ft = \_\_\_\_\_ in.

Write the measurement of the line segment to the nearest  $\frac{1}{8}$  inch.

Solve.

8. Explain what is wrong with the ruler shown below.



\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

## Remembering

Divide.

1.  $6 \overline{)582}$

2.  $5 \overline{)4,961}$

3.  $7 \overline{)6,334}$

Solve the comparison problem.

4. Michael made \$265 taking care of his neighbors' pets this summer. This was 5 times the amount he made last summer. How much money did Michael make taking care of pets last summer?

\_\_\_\_\_

Convert each measurement.

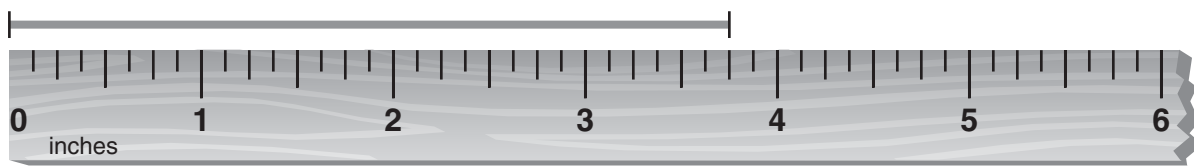
5. 9 days = \_\_\_\_\_ hrs

6. 14 min = \_\_\_\_\_ sec

7. 6 hrs = \_\_\_\_\_ min

8. 4 weeks = \_\_\_\_\_ days

9. **Stretch Your Thinking** Zack says that the line segment is  $3\frac{7}{10}$  inches long. Explain Zack's error. What is the correct measurement of the line segment?



\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



**Homework****Solve.***Show your work.*

1. A female rabbit gave birth to 6 babies. Each baby weighed 4 ounces. How many ounces did the babies weigh in all?
- 

2. One watermelon weighs 128 ounces. Another weighs 112 ounces. Which watermelon is heavier? By how many ounces?
- 

3. A box of cereal weighs 21 ounces. Does it weigh more or less than 1 pound? How much more or less?
- 

4. Mark had 3 quarts of milk. How many pints of milk did Mark have?
- 

5. Trevon's mom bought 3 gallons of fruit juice at the store. How many fluid ounces of fruit juice did Trevon's mom buy?
- 

6. Marinda made a drink that contained 2 pints of apple juice, 3 pints of grape juice, and 2 pints of cranberry juice. How many pints of juice did Marinda make?
-

## Remembering

Solve using any method.

1.  $7 \overline{)643}$

2.  $2 \overline{)5,698}$

3.  $4 \overline{)8,913}$

Write and solve an equation to solve each problem.

*Show your work.*

Draw comparison bars when needed.

4. Chris swam 94 laps at a pool for a fundraiser. This is twice the number of laps he expected he would be able to swim. How many laps was Chris expecting to swim?

\_\_\_\_\_

5. Jackie drank 60 ounces of water today, which was 12 more ounces than she drank yesterday. How much water did Jackie drink yesterday?

\_\_\_\_\_

Complete the tables.

6.

Feet	Inches
2	
4	
5	
8	

7.

Miles	Yards
3	
4	
8	
10	

8. **Stretch Your Thinking** Kai needs to pour 2 gallons of water into his fish tank. All he has is a measuring cup. How many cups of water should he put in the tank? Explain.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Homework**

Find the area and perimeter for rectangles with the lengths and widths shown.

1.  $l = 5$  units

$w = 6$  units

$A =$  \_\_\_\_\_

$P =$  \_\_\_\_\_

2.  $l = 8$  units

$w = 4$  units

$A =$  \_\_\_\_\_

$P =$  \_\_\_\_\_

3.  $l = 7$  units

$w = 5$  units

$A =$  \_\_\_\_\_

$P =$  \_\_\_\_\_

4.  $l = 4$  units

$w = 7$  units

$A =$  \_\_\_\_\_

$P =$  \_\_\_\_\_

5. **Challenge** Using only whole numbers, make as many different rectangles as you can that have either the same area or the same perimeter as the rectangles in Exercises 1–4.

Solve each word problem. Show the formula you used to find the answer.

*Show your work.*

6. Enzo is building a dog run that measures 10 feet by 9 feet. How many feet of fencing does he need to fence in the area?

\_\_\_\_\_

7. A sheet of construction paper is 9 inches long and 11 inches wide. How many 1-inch squares of paper can Dwayne cut out of one sheet of paper?

\_\_\_\_\_

8. Mieko has a rug that is 6 feet long and 8 feet wide. Her room measures 9 feet each way. Will the rug fit in her room? How do you know?

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

## Remembering

Add or subtract.

$$\begin{array}{r} 1. \quad 7,382 \\ - 2,990 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 47,291 \\ - 3,845 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 573,019 \\ + 32,485 \\ \hline \end{array}$$

Use an equation to solve.

4. A store pays \$715 for a shipment of 38 board games to stock their shelves. Each board game sells for \$24. How much profit does the store make on the sales of the board games?

*Show your work.*

---

Solve.

5. A preschool uses 4 gallons of milk a day. How many fluid ounces of milk does the preschool use in a day?

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6. **Stretch Your Thinking** A bathroom has a length of 10 feet and a width of 9 feet. Kade wants to put down tiles on the floor that are each 1 square foot. Then he will put a baseboard along the edges where the walls meet the floor. How many tiles does Kade need? How much baseboard does he need? Show your work.

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**Homework****Solve.***Show Your Work.*

1. Barbara has a rectangular shaped mouse pad. The longest side of the mouse pad is 8 inches and the shortest side is 3 inches. What is the perimeter and area of the mouse pad?
- 

2. Yeasmin has a cup with 27 milliliters of milk in it. She pours another 34 milliliters of milk into the cup. She then drinks 14 milliliters of the milk. How much milk is left in the cup?
- 

3. John's dog weighed 7 pounds when he got him. The dog's weight tripled each year for two years. How many ounces does John's dog now weigh?
- 

4. The area of a rectangular shaped living room was 240 sq ft. The longest side of the room was 20 ft. What is the length of the small side of the room?
- 

5. A grapefruit has a mass of 100 grams. A watermelon has a mass of 4 times the mass of the grapefruit. What is the mass of the watermelon, in centigrams?
- 

6. Hannah ran 200 yards during recess. Juanita ran 340 yards during recess. In feet, how much further did Juanita run than Hannah?
- 

7. The perimeter of the rectangular shaped building is 960 ft. The shortest side of the building is 150 ft. What is the length of one of the longest sides of the building?
-

## Remembering

Solve by any method. Then check your answer by rounding and estimating.

1.  $6 \overline{)49}$

2.  $4 \overline{)502}$

3.  $6 \overline{)3,781}$

Use an equation to solve.

4. Sydney bakes mini muffins for a bake sale. She bakes 4 pans that hold 12 muffins each and 3 pans that hold 18 muffins each. How many muffins does Sydney bake?

\_\_\_\_\_

Find the area and perimeter for rectangles with the lengths and widths shown.

5.  $l = 8$  units

$w = 7$  units

$A =$  \_\_\_\_\_

$P =$  \_\_\_\_\_

6.  $l = 2$  units

$w = 14$  units

$A =$  \_\_\_\_\_

$P =$  \_\_\_\_\_

7.  $l = 12$  units

$w = 3$  units

$A =$  \_\_\_\_\_

$P =$  \_\_\_\_\_

8. **Stretch Your Thinking** Ms. Carpsse writes the following problem on the board. *A 20-foot length of ribbon is cut into 4 equal pieces. How many inches long is each piece of ribbon?* Ashe says you should first divide 20 feet by 4, then convert to inches. Wesley says you should first convert 20 feet to inches, then divide by 4. Explain how both students are correct.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Homework****Solve.***Show Your Work.*

1. Yonni has a 5 gallon fish tank. He needs to change the water in the fish tank. How many cups of water will Yonni need to replace all the water in the fish tank?
- 

2. Barry is building a fence around his backyard. The backyard is in the shape of a rectangle and the longest side of the yard is 20 meters. The fence will have a perimeter of 60 meters. How many meters long is the short side of the backyard?
- 

3. Yesi's dog weighed 5 pounds when she got him. He now weighs 45 pounds. How much weight did Yesi's dog gain, in ounces?
- 

4. Fiona's family is replacing the carpet in their living room. The living room is in the shape of a square. The length of one wall is 16 feet. How many square feet of carpet does Fiona's family need to buy to replace their old carpet?
- 

5. Trevon drew the two rectangles below. He wanted to know the difference between the areas of the two rectangles. What is the difference between the two areas?



## Remembering

Solve. Then explain the meaning of the remainder.

1. There are 43 students at a musical performance. Each row in the auditorium has 8 seats. If the students fill seats row by row from front to back, how many people are in the last row?

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Write whether each number is *prime* or *composite*.

2. 49

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3. 31

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4. 17

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Solve.

*Show your work.*

5. The perimeter of a postage stamp is 90 millimeters. The longer side of the stamp is 25 millimeters. What is the length of the shorter side?

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6. **Stretch Your Thinking** The directions for lemonade say to put 2 cups of the liquid concentrate into 1 gallon of water. If Olivia only wants to make 1 pint of lemonade, how many fluid ounces of concentrate should she use? Explain.

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**Homework**

Write each fraction as a sum of unit fractions.

1.  $\frac{2}{4} =$  \_\_\_\_\_

2.  $\frac{5}{8} =$  \_\_\_\_\_

3.  $\frac{2}{6} =$  \_\_\_\_\_

4.  $\frac{7}{8} =$  \_\_\_\_\_

5.  $\frac{4}{12} =$  \_\_\_\_\_

6.  $\frac{6}{12} =$  \_\_\_\_\_

7.  $\frac{8}{12} =$  \_\_\_\_\_

8.  $\frac{4}{6} =$  \_\_\_\_\_

Name the fraction for each sum of unit fractions.

9.  $\frac{1}{4} + \frac{1}{4} + \frac{1}{4} =$  \_\_\_\_\_

10.  $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} =$  \_\_\_\_\_

11.  $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} =$  \_\_\_\_\_

12.  $\frac{1}{12} + \frac{1}{12} + \frac{1}{12} + \frac{1}{12} + \frac{1}{12} + \frac{1}{12} + \frac{1}{12} =$  \_\_\_\_\_

13.  $\frac{1}{12} + \frac{1}{12} =$  \_\_\_\_\_

14.  $\frac{1}{6} + \frac{1}{6} + \frac{1}{6} =$  \_\_\_\_\_

15.  $\frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} =$  \_\_\_\_\_

16.  $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} =$  \_\_\_\_\_

Write three things you learned today about fractions.

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## Remembering

Solve using any method and show your work.

Check your work with estimation.

1.  $2 \times 87$

\_\_\_\_\_

2.  $35 \times 64$

\_\_\_\_\_

3.  $336$

$\times 8$

\_\_\_\_\_

Solve using any method.

4.  $5 \overline{)481}$

5.  $4 \overline{)2,575}$

6.  $7 \overline{)3,855}$

Simplify each expression.

7.  $(7 - 3) \cdot 8 =$  \_\_\_\_\_

8.  $(6 \cdot 3) \div (11 - 9) =$  \_\_\_\_\_

9.  $9t - 3t =$  \_\_\_\_\_

10.  $(12n - n) + 5n =$  \_\_\_\_\_

**11. Stretch Your Thinking** Kia has a long piece of ribbon.

She cuts the ribbon in half then cuts each of those halves in half again. Draw the cut ribbon. Kia uses 3 of the cut pieces for wrapping bouquets of flowers. Write a sum of unit fractions and the total to show the amount of the ribbon she has used. What fraction represents the amount she has left over?

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# Homework

Name the fraction of the shape that is shaded and the fraction of the shape that is not shaded. Then, write an equation that shows how the two fractions make one whole.

1.

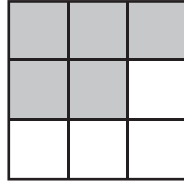


shaded: \_\_\_\_\_

unshaded: \_\_\_\_\_

equation: \_\_\_\_\_

2.

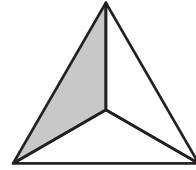


shaded: \_\_\_\_\_

unshaded: \_\_\_\_\_

equation: \_\_\_\_\_

3.



shaded: \_\_\_\_\_

unshaded: \_\_\_\_\_

equation: \_\_\_\_\_

Write the fraction that will complete each equation.

4.  $1 = \frac{3}{3} = \frac{1}{3} +$  \_\_\_\_\_

5.  $1 = \frac{8}{8} = \frac{3}{8} +$  \_\_\_\_\_

6.  $1 = \frac{4}{4} = \frac{2}{4} +$  \_\_\_\_\_

7.  $1 = \frac{10}{10} = \frac{7}{10} +$  \_\_\_\_\_

8.  $1 = \frac{6}{6} = \frac{5}{6} +$  \_\_\_\_\_

9.  $1 = \frac{9}{9} = \frac{8}{9} +$  \_\_\_\_\_

10.  $1 = \frac{7}{7} = \frac{4}{7} +$  \_\_\_\_\_

11.  $1 = \frac{12}{12} = \frac{9}{12} +$  \_\_\_\_\_

Solve.

*Show your work.*

12. Kim drank  $\frac{1}{3}$  of a carton of milk. Joan drank  $\frac{1}{4}$  of a carton of milk. Who drank more milk?

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13. Maria read  $\frac{1}{8}$  of a story. Darren read  $\frac{1}{7}$  of the same story. Who read less of the story?

---



---

## Remembering

Write = or  $\neq$  to make each statement true.

1.  $25 + 25 \bigcirc 50$

2.  $17 + 3 \bigcirc 30 - 10$

3.  $9 + 8 \bigcirc 8 + 9$

4.  $31 \bigcirc 23 + 9$

5.  $3 + 1 + 12 \bigcirc 15$

6.  $40 - 22 \bigcirc 18$

Solve each equation.

7.  $8 \div b = 2$

$b = \underline{\hspace{2cm}}$

8.  $j \div 6 = 7$

$j = \underline{\hspace{2cm}}$

9.  $k = 5 \times 3$

$k = \underline{\hspace{2cm}}$

10.  $q \times 10 = 90$

$q = \underline{\hspace{2cm}}$

11.  $12 \times r = 36$

$r = \underline{\hspace{2cm}}$

12.  $a = 7 \times 8$

$a = \underline{\hspace{2cm}}$

Write each fraction as a sum of unit fractions.

13.  $\frac{4}{6} = \underline{\hspace{4cm}}$

14.  $\frac{6}{8} = \underline{\hspace{4cm}}$

15. **Stretch Your Thinking** Margaret and June both made a pumpkin pie of the same size. Each cut her pie into equal pieces. Margaret's whole pie can be represented by the fraction  $\frac{8}{8}$ . June's whole pie can be represented by the fraction  $\frac{6}{6}$ . What is different about the two pies? If Margaret and June each eat 1 piece of their own pie, who will eat more? Explain how you know.

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**Homework****Solve.**

1.  $\frac{4}{8} + \frac{2}{8} =$  \_\_\_\_\_

2.  $\frac{3}{11} + \frac{6}{11} =$  \_\_\_\_\_

3.  $\frac{3}{4} - \frac{2}{4} =$  \_\_\_\_\_

4.  $\frac{3}{5} + \frac{4}{5} =$  \_\_\_\_\_

5.  $\frac{2}{6} + \frac{1}{6} =$  \_\_\_\_\_

6.  $\frac{6}{7} - \frac{2}{7} =$  \_\_\_\_\_

7.  $\frac{5}{12} + \frac{4}{12} =$  \_\_\_\_\_

8.  $\frac{9}{10} - \frac{3}{10} =$  \_\_\_\_\_

9.  $\frac{8}{9} - \frac{4}{9} =$  \_\_\_\_\_

**Solve.***Show your work.*

10. Sue is driving to see her mom. The first day she traveled  $\frac{2}{5}$  of the distance. The next day she traveled another  $\frac{2}{5}$  of the distance. What fraction of the distance has she driven?
- \_\_\_\_\_

11. When Keshawn sharpens her pencil, she loses about  $\frac{1}{12}$  of the length. One day, she sharpened her pencil 3 times. The next day she sharpened the same pencil 5 times. What fraction of the pencil did Keshawn sharpen away?
- \_\_\_\_\_

12. One day, a flower shop sold  $\frac{7}{10}$  of its roses in the morning and  $\frac{2}{10}$  of its roses in the afternoon. What fraction of its roses did the shop sell that day?
- \_\_\_\_\_

13. Bonnie's orange was cut into eighths. She ate  $\frac{3}{8}$  of the orange and her friend ate  $\frac{3}{8}$  of it. Did they eat the whole orange? Explain.
- \_\_\_\_\_

14. Write and solve a fraction word problem of your own.
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

## Remembering

Solve the comparison problem.

1. There are 108 cars parked in front of a building. This is 4 times the number of cars that are parked in the back of the building. How many cars are parked in the back of the building?
- \_\_\_\_\_

Write a number sentence to answer each question.

2. How many millimeters are equal to 8 meters?
- \_\_\_\_\_
3. How many centimeters are equal to 35 kilometers?
- \_\_\_\_\_
4. How many meters are equal to 72 kilometers?
- \_\_\_\_\_

Name the fraction that will complete each equation.

5.  $1 = \frac{6}{6} = \frac{4}{6} +$  \_\_\_\_\_

6.  $1 = \frac{10}{10} = \frac{1}{10} +$  \_\_\_\_\_

7.  $1 = \frac{3}{3} = \frac{2}{3} +$  \_\_\_\_\_

8.  $1 = \frac{8}{8} = \frac{4}{8} +$  \_\_\_\_\_

9. **Stretch Your Thinking** Lilly started the morning with a glass of juice that was  $\frac{4}{5}$  full. She drank  $\frac{3}{5}$  of the glass, then partially refilled with another  $\frac{2}{5}$  of a glass. At this point, how full is Lilly's glass with juice? Explain your answer.
- \_\_\_\_\_
- \_\_\_\_\_

**Homework****Write the equivalent fraction.**

1.  $6\frac{2}{5} =$  \_\_\_\_\_

2.  $2\frac{3}{8} =$  \_\_\_\_\_

3.  $4\frac{6}{7} =$  \_\_\_\_\_

4.  $8\frac{1}{3} =$  \_\_\_\_\_

5.  $3\frac{7}{10} =$  \_\_\_\_\_

6.  $5\frac{5}{6} =$  \_\_\_\_\_

7.  $7\frac{3}{4} =$  \_\_\_\_\_

8.  $1\frac{4}{9} =$  \_\_\_\_\_

**Write the equivalent mixed number.**

9.  $\frac{50}{7} =$  \_\_\_\_\_

10.  $\frac{16}{10} =$  \_\_\_\_\_

11.  $\frac{23}{4} =$  \_\_\_\_\_

12.  $\frac{50}{5} =$  \_\_\_\_\_

13.  $\frac{21}{8} =$  \_\_\_\_\_

14.  $\frac{11}{3} =$  \_\_\_\_\_

15.  $\frac{60}{9} =$  \_\_\_\_\_

16.  $\frac{23}{5} =$  \_\_\_\_\_

**Solve.***Show your work.*

17. Castor brought  $6\frac{3}{4}$  small carrot cakes to share with the 26 students in his class. Did Castor bring enough for each student to have  $\frac{1}{4}$  of a cake? Explain your thinking.

---



---

18. Claire cut some apples into eighths. She and her friends ate all but 17 pieces. How many whole apples and parts of apples did she have left over? Tell how you know.

---



---

## Remembering

Write and solve an equation to solve each problem.  
Draw comparison bars when needed.

*Show your work.*

1. Brigitte fostered 14 dogs this year, which is 5 less than last year. How many dogs did Brigitte foster last year?

\_\_\_\_\_

2. Rema has two jobs. In one year, she worked 276 hours at her first job. In the same year, she worked 3 times the number of hours at her second job. How many hours did Rema work that year at her second job?

\_\_\_\_\_

**Complete.**

3. How many milliliters are equal to 21 L? \_\_\_\_\_

4. How many milligrams are equal to 9 g? \_\_\_\_\_

5. How many grams are equal to 400 kg? \_\_\_\_\_

**Solve.**

6.  $\frac{3}{4} - \frac{1}{4} =$  \_\_\_\_\_

7.  $\frac{2}{9} + \frac{3}{9} =$  \_\_\_\_\_

8.  $\frac{7}{8} - \frac{1}{8} =$  \_\_\_\_\_

9. **Stretch Your Thinking** Harrison says that to convert a mixed number to a fraction greater than 1, he thinks of it this way:  $4\frac{2}{5} = \frac{5}{5} + \frac{5}{5} + \frac{5}{5} + \frac{5}{5} + \frac{2}{5} = \frac{22}{5}$ . Does his strategy work? Explain.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



**Homework****Add.**

$$\begin{array}{r} 1. \quad 3\frac{2}{6} \\ + 6\frac{3}{6} \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 8\frac{5}{10} \\ + 9\frac{6}{10} \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 7\frac{3}{4} \\ + 4\frac{2}{4} \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 1\frac{5}{9} \\ + 5\frac{7}{9} \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 3\frac{2}{5} \\ + 3\frac{3}{5} \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 1\frac{2}{8} \\ + 2\frac{5}{8} \\ \hline \end{array}$$

**Subtract.**

$$\begin{array}{r} 7. \quad 7\frac{2}{3} \\ - 3\frac{1}{3} \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad 8\frac{2}{7} \\ - 5\frac{5}{7} \\ \hline \end{array}$$

$$\begin{array}{r} 9. \quad 6\frac{1}{4} \\ - 2\frac{3}{4} \\ \hline \end{array}$$

$$\begin{array}{r} 10. \quad 9\frac{1}{8} \\ - 4\frac{5}{8} \\ \hline \end{array}$$

$$\begin{array}{r} 11. \quad 9\frac{4}{6} \\ - 4\frac{1}{6} \\ \hline \end{array}$$

$$\begin{array}{r} 12. \quad 3\frac{1}{5} \\ - 2\frac{3}{5} \\ \hline \end{array}$$

**Add or subtract.**

$$13. \quad \frac{1}{4} + \frac{7}{4} = \underline{\hspace{2cm}}$$

$$14. \quad \frac{3}{8} + \frac{6}{8} = \underline{\hspace{2cm}}$$

$$15. \quad \frac{9}{6} - \frac{8}{6} = \underline{\hspace{2cm}}$$

$$16. \quad \frac{5}{9} + \frac{6}{9} = \underline{\hspace{2cm}}$$

$$17. \quad \frac{9}{2} - \frac{6}{2} = \underline{\hspace{2cm}}$$

$$18. \quad \frac{5}{10} - \frac{2}{10} = \underline{\hspace{2cm}}$$

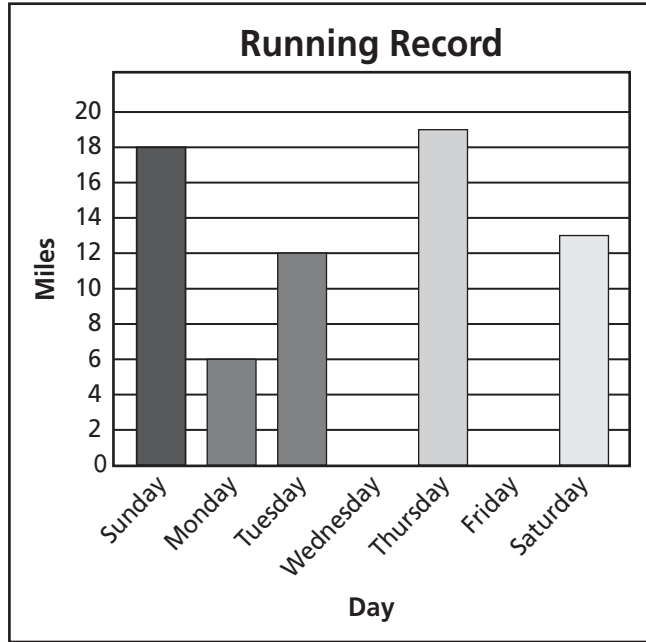
$$19. \quad \frac{2}{5} + \frac{4}{5} = \underline{\hspace{2cm}}$$

$$20. \quad \frac{8}{7} - \frac{3}{7} = \underline{\hspace{2cm}}$$

$$21. \quad \frac{7}{3} - \frac{2}{3} = \underline{\hspace{2cm}}$$

# Remembering

The graph shows the number of miles Matt ran during a week of training for a marathon. Use the graph for Exercises 1–2.



1. On which day did Jason run 3 times the number of miles as he ran on Monday?
- \_\_\_\_\_

2. Write an addition equation and a subtraction equation that compares the number of miles Matt ran on Thursday ( $x$ ) to the number of miles Jason ran on Tuesday ( $y$ ).
- \_\_\_\_\_

Convert each measurement.

3. 4 min = \_\_\_\_\_ sec

4. 12 hrs = \_\_\_\_\_ min

5. 5 days = \_\_\_\_\_ hrs

6. 2 days = \_\_\_\_\_ min

Write the equivalent mixed number.

7.  $\frac{9}{4} =$  \_\_\_\_\_

8.  $\frac{12}{3} =$  \_\_\_\_\_

9.  $\frac{63}{10} =$  \_\_\_\_\_

10.  $\frac{11}{2} =$  \_\_\_\_\_

11.  $\frac{14}{4} =$  \_\_\_\_\_

12.  $\frac{15}{6} =$  \_\_\_\_\_

13. **Stretch Your Thinking** Garrett picked  $12\frac{7}{8}$  pounds of peaches. Elise picked  $13\frac{3}{8}$  pounds of peaches. Who picked more peaches? How much more? Explain.
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

**Homework**

Write each mixed number as a fraction.

1.  $6\frac{5}{8} =$  \_\_\_\_\_

2.  $2\frac{1}{4} =$  \_\_\_\_\_

3.  $8\frac{3}{10} =$  \_\_\_\_\_

4.  $4\frac{2}{6} =$  \_\_\_\_\_

Write each fraction as a mixed number.

5.  $\frac{26}{3} =$  \_\_\_\_\_

6.  $\frac{47}{7} =$  \_\_\_\_\_

7.  $\frac{59}{9} =$  \_\_\_\_\_

8.  $\frac{44}{5} =$  \_\_\_\_\_

Add or subtract.

9.  $\frac{2}{3} + \frac{2}{3} =$  \_\_\_\_\_

10.  $\frac{5}{7} - \frac{3}{7} =$  \_\_\_\_\_

11.  $1\frac{3}{9} + \frac{7}{9} =$  \_\_\_\_\_

12.  $\frac{3}{4} + 3\frac{3}{4} =$  \_\_\_\_\_

13.  $2\frac{4}{15} - \frac{10}{15} =$  \_\_\_\_\_

14.  $\frac{15}{20} - \frac{6}{20} =$  \_\_\_\_\_

15.  $3\frac{3}{5} - 3\frac{1}{5} =$  \_\_\_\_\_

16.  $1\frac{1}{6} + 2\frac{2}{6} =$  \_\_\_\_\_

17.  $2\frac{7}{8} - 1\frac{2}{8} =$  \_\_\_\_\_

Solve.

*Show your work.*

18. Rashid made a loaf of bread that called for  $3\frac{1}{3}$  cups of flour. He combined white flour and whole wheat flour. If he used  $1\frac{2}{3}$  cups of white flour, how much whole wheat flour did he use?
- \_\_\_\_\_

19. Manuela spent  $1\frac{3}{4}$  hours writing her book report. Katy spent  $\frac{3}{4}$  hour more time on her book report than Manuela spent. How much time did Katy spend writing her report?
- \_\_\_\_\_

## Remembering

Add or subtract.

$$\begin{array}{r} 1. \quad 23,546 \\ + \quad 3,198 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 50,427 \\ - \quad 27,152 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 850,000 \\ - \quad 541,086 \\ \hline \end{array}$$

Use an equation to solve.

*Show your work.*

4. Each of Caroline's 2 older cats gets 7 ounces of food each day. Her younger cat gets 9 ounces of food each day. How much food does Caroline feed her cats altogether each day?
- \_\_\_\_\_

5. Chad shares his 84 toy cars equally among his 3 friends and himself. Then he donates 15 cars to a used toy collection. How many cars does Chad have left?
- \_\_\_\_\_

Add.

$$\begin{array}{r} 6. \quad 3\frac{4}{9} \\ + \quad 5\frac{2}{9} \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad 7\frac{1}{5} \\ + \quad 2\frac{2}{5} \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad 9\frac{7}{10} \\ + \quad 8\frac{4}{10} \\ \hline \end{array}$$

$$\begin{array}{r} 9. \quad 5\frac{2}{7} \\ + \quad 2\frac{6}{7} \\ \hline \end{array}$$

10. **Stretch Your Thinking** Chris ordered pizza for his family from a company that cuts its pizzas into 8 slices each. The fraction of a pizza eaten by each family member is shown in the table at the right. If they had less than 1 whole pizza left over, how many pizzas did they order? What fraction of a pizza was left over? Show your work.
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

Family member	Fraction of pizza eaten
Chris	$\frac{3}{8}$
Stacy	$\frac{2}{8}$
Rylan	$\frac{4}{8}$
Alec	$\frac{5}{8}$
Kelli	$\frac{3}{8}$

**Homework****Multiply.**

1.  $3 \times \frac{1}{4} =$  \_\_\_\_\_

2.  $5 \times \frac{1}{3} =$  \_\_\_\_\_

3.  $4 \times \frac{1}{6} =$  \_\_\_\_\_

4.  $7 \times \frac{1}{7} =$  \_\_\_\_\_

5.  $2 \times \frac{1}{8} =$  \_\_\_\_\_

6.  $3 \times \frac{1}{10} =$  \_\_\_\_\_

7.  $2 \times \frac{3}{4} =$  \_\_\_\_\_

8.  $12 \times \frac{2}{3} =$  \_\_\_\_\_

9.  $12 \times \frac{5}{6} =$  \_\_\_\_\_

10.  $3 \times \frac{2}{7} =$  \_\_\_\_\_

11.  $24 \times \frac{5}{8} =$  \_\_\_\_\_

12.  $8 \times \frac{3}{10} =$  \_\_\_\_\_

13.  $20 \times \frac{3}{5} =$  \_\_\_\_\_

14.  $9 \times \frac{5}{9} =$  \_\_\_\_\_

15.  $10 \times \frac{7}{12} =$  \_\_\_\_\_

**Solve.***Show your work.*

16. Manuel eats  $\frac{1}{8}$  of a melon for a snack each day. How much melon does he eat in five days?

\_\_\_\_\_

17. Shannen collects paper for recycling. She collects  $\frac{1}{3}$  pound of paper each week. How much paper will she collect in 4 weeks?

\_\_\_\_\_

18. Aisha is unpacking boxes. It takes  $\frac{3}{4}$  hour to unpack each box. How long will it take her to unpack 6 boxes?

\_\_\_\_\_

19. Mrs. Suarez cut a pizza into 8 equal slices. Each person in her family ate 2 slices. If there are 3 people in her family, what fraction of the pizza did they eat altogether?

\_\_\_\_\_

20. Hailey is knitting a scarf. Each half hour, she adds  $\frac{3}{7}$  inch to the scarf's length. How much length will she add to the scarf in 12 hours?

\_\_\_\_\_

## Remembering

Use an equation to solve.

*Show your work.*

1. Camille bought 2 pairs of pants for \$29 each and a shirt for \$18. She paid with \$80. How much did she get in change?

\_\_\_\_\_

2. On a weekend road trip, the Jensen family drove 210 miles on highways, where their car gets 35 miles for each gallon of gasoline, and 54 miles on city streets, where their car gets 18 miles for each gallon. How many gallons of gas did they use?

\_\_\_\_\_

Complete the tables.

3.

Yards	Feet
2	
5	
8	
10	

4.

Feet	Inches
3	
4	
9	
12	

Add or subtract.

5.  $\frac{9}{10} - \frac{3}{10} =$  \_\_\_\_\_

6.  $\frac{2}{5} + \frac{4}{5} =$  \_\_\_\_\_

7.  $2\frac{1}{8} + 5\frac{3}{8} =$  \_\_\_\_\_

8.  $8\frac{6}{7} - 8\frac{2}{7} =$  \_\_\_\_\_

9.  $4\frac{3}{6} + 1\frac{5}{6} =$  \_\_\_\_\_

10.  $7\frac{1}{4} - 4\frac{3}{4} =$  \_\_\_\_\_

11. **Stretch Your Thinking** A worm moves forward  $\frac{3}{8}$  inch every 5 minutes for 1 hour 25 minutes. How far does the worm move in this time? Explain.

\_\_\_\_\_  
\_\_\_\_\_

**Homework**

Draw a model for each problem. Then solve.

1.  $4 \cdot \frac{1}{5} =$  \_\_\_\_\_

2.  $7 \cdot \frac{1}{3} =$  \_\_\_\_\_

3.  $2 \cdot \frac{3}{8} =$  \_\_\_\_\_

4.  $5 \cdot \frac{3}{4} =$  \_\_\_\_\_

**Multiply.**

5.  $12 \cdot \frac{5}{6} =$  \_\_\_\_\_

6.  $9 \cdot \frac{1}{2} =$  \_\_\_\_\_

7.  $25 \cdot \frac{3}{7} =$  \_\_\_\_\_

8.  $12 \cdot \frac{4}{5} =$  \_\_\_\_\_

9.  $5 \cdot \frac{2}{12} =$  \_\_\_\_\_

10.  $9 \cdot \frac{2}{3} =$  \_\_\_\_\_

**Write an equation. Then solve.**

*Show your work.*

11. Cal's shoe is  $\frac{3}{4}$  foot long. He used his shoe to measure his bedroom and found that it was 15 shoes long. What is the length of Cal's room in feet?

\_\_\_\_\_

12. The cafeteria at a summer camp gives each camper  $\frac{2}{3}$  cup of juice for breakfast. This morning, 50 campers had juice for breakfast. How much juice did the cafeteria serve in all?

\_\_\_\_\_

## Remembering

Solve each problem.

1.  $24 \div 8 + 9 = h$

\_\_\_\_\_

2.  $(14 \div 2) - (3 \times 2) = l$

\_\_\_\_\_

3.  $20 - (5 \times 4) = p$

\_\_\_\_\_

4.  $(2 \times 9) + 9 = g$

\_\_\_\_\_

5.  $(3 + 7) \times (2 + 4) = m$

\_\_\_\_\_

6.  $(9 \div 3) + (5 - 4) = t$

\_\_\_\_\_

Solve.

*Show your work.*

7. A baby weighs 7 pounds 2 ounces at birth. How many ounces does the baby weigh?

\_\_\_\_\_

8. Jack bought 2 quarts of motor oil. His car took 1 quart and another half quart. How many cups of oil does he have left?

\_\_\_\_\_

Multiply.

9.  $6 \times \frac{1}{7} =$  \_\_\_\_\_

10.  $5 \times \frac{3}{8} =$  \_\_\_\_\_

11.  $2 \times \frac{9}{10} =$  \_\_\_\_\_

12.  $8 \times \frac{3}{4} =$  \_\_\_\_\_

13.  $3 \times \frac{1}{3} =$  \_\_\_\_\_

14.  $15 \times \frac{3}{11} =$  \_\_\_\_\_

15. **Stretch Your Thinking** Write a word problem using the whole number 4 and the fraction  $\frac{3}{8}$ . Then solve your problem.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



**Homework****Add or subtract.**

$$\begin{array}{r} 1. \quad 2\frac{2}{3} \\ + 4\frac{1}{3} \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 9\frac{7}{9} \\ - 4\frac{5}{9} \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 5\frac{4}{5} \\ + 7\frac{3}{5} \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 8 \\ - 1\frac{1}{6} \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 18\frac{5}{8} \\ + 12\frac{7}{8} \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 10\frac{1}{4} \\ - 3\frac{3}{4} \\ \hline \end{array}$$

**Multiply. Write your answer as a mixed number or a whole number, when possible.**

$$7. \quad 5 \cdot \frac{1}{5} = \underline{\hspace{2cm}}$$

$$8. \quad 5 \cdot \frac{4}{7} = \underline{\hspace{2cm}}$$

$$9. \quad 20 \cdot \frac{3}{10} = \underline{\hspace{2cm}}$$

$$10. \quad 8 \cdot \frac{1}{6} = \underline{\hspace{2cm}}$$

$$11. \quad 9 \cdot \frac{7}{12} = \underline{\hspace{2cm}}$$

$$12. \quad 2 \cdot \frac{4}{9} = \underline{\hspace{2cm}}$$

**Write an equation. Then solve.***Show your work.*

13. At the science-club picnic  $\frac{2}{3}$  cup of potato salad will be served to each student. If 20 students attend the picnic, how much potato salad will be needed?

---

14. Skye spent  $4\frac{2}{6}$  hours reading over the weekend. If she read  $1\frac{5}{6}$  hours on Saturday, how long did she read on Sunday?

---

## Remembering

Tell whether 3 is a factor of each number. Write *yes* or *no*.

1. 12

\_\_\_\_\_

2. 14

\_\_\_\_\_

3. 38

\_\_\_\_\_

4. 51

\_\_\_\_\_

Tell whether each number is a multiple of 6. Write *yes* or *no*.

5. 46

\_\_\_\_\_

6. 54

\_\_\_\_\_

7. 21

\_\_\_\_\_

8. 30

\_\_\_\_\_

Find the area and perimeter for rectangles with the lengths and widths shown.

9.  $l = 7$  units

$w = 8$  units

$A =$  \_\_\_\_\_

$P =$  \_\_\_\_\_

10.  $l = 2$  units

$w = 4$  units

$A =$  \_\_\_\_\_

$P =$  \_\_\_\_\_

11.  $l = 7$  units

$w = 5$  units

$A =$  \_\_\_\_\_

$P =$  \_\_\_\_\_

Write an equation. Then solve.

*Show your work.*

12. Mattie walks  $\frac{3}{4}$  mile to school and then back each day. How many miles does she walk to and from school in 5 days?

\_\_\_\_\_

13. A certain postage stamp is 2 inches long and  $\frac{5}{6}$  inches wide. What is the area of the stamp?

\_\_\_\_\_

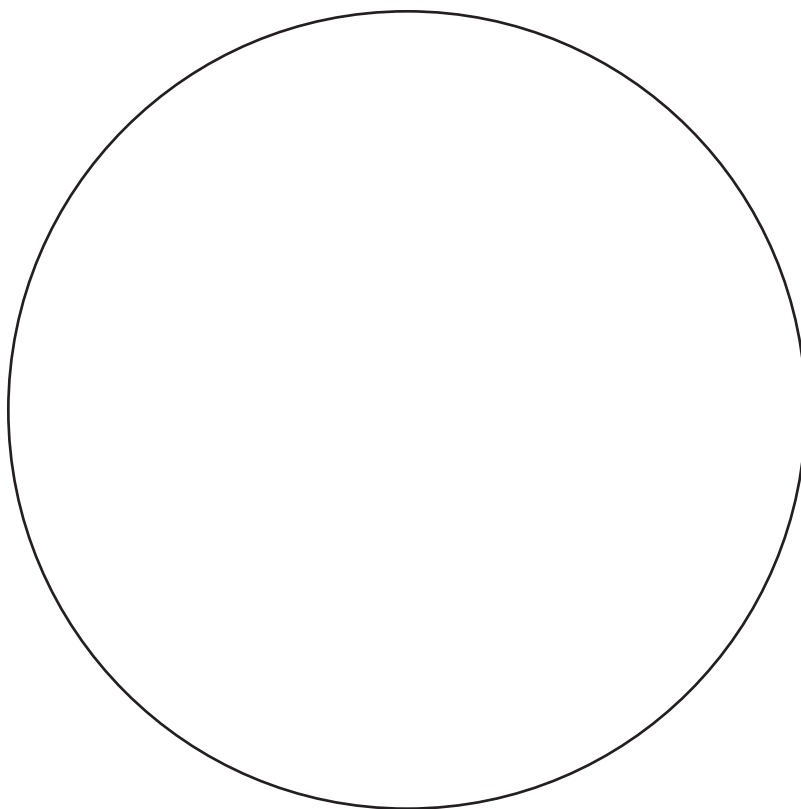
14. **Stretch Your Thinking** For a woodworking project, Tyler has cut 14 boards that are each  $\frac{3}{4}$  yard and one board that is  $2\frac{1}{4}$  yards. What is the total length of the boards Tyler has cut? Show your work.

\_\_\_\_\_

# Homework

A pizza garden is a smaller version of a pizza farm. You can make a pizza garden at your home or in your community.

1. Use the circle below to draw a vegetarian pizza garden with 8 wedges. In each wedge, show one of the following vegetarian ingredients: wheat, fruit, vegetables, Italian herbs, and dairy cows. Use each type of ingredient at least once.



2. What fraction of your pizza garden is made up of wheat or fruit?  
\_\_\_\_\_

3. What fraction of your pizza garden is *not* made up of vegetables?  
\_\_\_\_\_

## Remembering

Use the rule to find the next five terms in the pattern.

1. 7, 14, 28, 56, ...

2. 10, 18, 26, 34, ...

Rule: multiply by 2

Rule: add 8

\_\_\_\_\_

\_\_\_\_\_

Use the rule to find the first ten terms in the pattern.

3. First term: 3

Rule: multiply by 2

\_\_\_\_\_

Solve.

4. A rectangular vegetable garden is 10 yards by 7 yards.  
What is the perimeter of the garden in feet?

\_\_\_\_\_

\_\_\_\_\_

Multiply. Change fractions greater than 1 to mixed numbers or whole numbers.

5.  $7 \cdot \frac{3}{5} =$  \_\_\_\_\_

6.  $12 \cdot \frac{1}{2} =$  \_\_\_\_\_

7.  $9 \cdot \frac{3}{10} =$  \_\_\_\_\_

8. **Stretch Your Thinking** The table shows the amount of snowfall, in inches, during the winter months last year and this year. How much would it have to snow in February this year for the total snowfall this winter to be the same as last winter? Show your work.

Last Year			This Year		
Dec.	Jan.	Feb.	Dec.	Jan.	Feb.
$12\frac{7}{8}$	$17\frac{1}{8}$	$26\frac{3}{8}$	$35\frac{5}{8}$	$11\frac{1}{8}$	?

\_\_\_\_\_

\_\_\_\_\_

**Homework**

Write  $>$  or  $<$  to make each statement true.

1.  $\frac{1}{5}$  ○  $\frac{1}{4}$

2.  $\frac{6}{10}$  ○  $\frac{5}{10}$

3.  $\frac{4}{10}$  ○  $\frac{4}{12}$

4.  $\frac{3}{5}$  ○  $\frac{4}{5}$

5.  $\frac{3}{6}$  ○  $\frac{3}{8}$

6.  $\frac{7}{100}$  ○  $\frac{8}{100}$

Solve. Explain your answers.

*Show your work.*

7. Juan took  $\frac{2}{12}$  of the fruit salad and Harry took  $\frac{3}{12}$  of the same salad. Who took more of the salad?

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8. Kim drank  $\frac{1}{3}$  of a carton of milk. Joan drank  $\frac{1}{4}$  of a carton. Who drank more?

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9. Maria read  $\frac{3}{8}$  of a story. Darren read  $\frac{3}{6}$  of the same story. Who read more of the story?

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10. Write 2 things you learned today about comparing fractions.

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11. Write and solve a fraction word problem of your own.

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# Remembering

Divide.

1.  $6 \overline{)273}$

2.  $2 \overline{)1,935}$

3.  $7 \overline{)812}$

Write = or  $\neq$  to make each statement true.

4.  $16 - 4 \bigcirc 2$

5.  $20 + 8 \bigcirc 30 - 2$

6.  $9 - 4 \bigcirc 12$

7.  $48 \bigcirc 24 + 24$

8.  $50 + 3 + 8 \bigcirc 71$

9.  $13 + 15 \bigcirc 15 + 13$

Solve each equation.

10.  $18 \div s = 9$

$s = \underline{\hspace{2cm}}$

11.  $m = 8 \times 4$

$m = \underline{\hspace{2cm}}$

12.  $p \div 10 = 7$

$p = \underline{\hspace{2cm}}$

13.  $t \times 12 = 60$

$t = \underline{\hspace{2cm}}$

14.  $3 \times y = 18$

$y = \underline{\hspace{2cm}}$

15.  $j = 42 \div 6$

$j = \underline{\hspace{2cm}}$

16. **Stretch Your Thinking** Ellen, Fern, and Kyle are all drinking milk from the same size cartons in the cafeteria. Ellen's carton is  $\frac{3}{7}$  full. Fern's carton is  $\frac{3}{10}$  full. Kevin's carton is  $\frac{3}{4}$  full. Who has the least milk left in their carton? Explain how you know.

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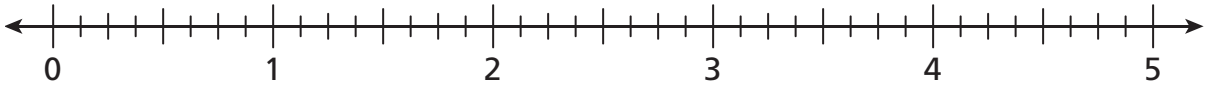
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# Homework

1. Use the number line to compare the fractions or mixed numbers. Write  $>$  or  $<$  to make the statement true.



a.  $\frac{3}{4} \bigcirc \frac{5}{8}$

b.  $1\frac{1}{4} \bigcirc \frac{3}{2}$

c.  $\frac{9}{4} \bigcirc 2\frac{1}{2}$

d.  $\frac{7}{2} \bigcirc \frac{17}{8}$

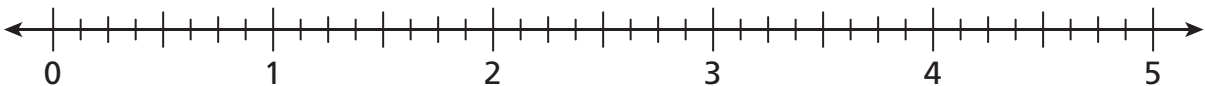
e.  $4\frac{2}{4} \bigcirc 4\frac{5}{8}$

f.  $4\frac{1}{2} \bigcirc \frac{33}{8}$

g.  $1\frac{3}{4} \bigcirc 1\frac{7}{8}$

h.  $1\frac{1}{2} \bigcirc 1\frac{1}{8}$

2. Mark and label the letter of each fraction or mixed number on the number line.



a.  $\frac{3}{8}$

b.  $\frac{3}{4}$

c.  $1\frac{1}{2}$

d.  $2\frac{1}{8}$

e.  $2\frac{7}{8}$

f.  $3\frac{1}{4}$

g.  $3\frac{5}{8}$

h.  $4\frac{2}{4}$

i.  $4\frac{6}{8}$

j.  $4\frac{7}{8}$

The list below shows the amount of fruit purchased from the market.

**Fruit Purchases (lb = pounds)**

apples $2\frac{1}{8}$ lb	bananas $2\frac{3}{8}$ lb
grapes $2\frac{2}{3}$ lb	oranges $3\frac{1}{10}$ lb

3. Decide if each weight is closer to 2 pounds,  $2\frac{1}{2}$  pounds, or 3 pounds. Write *closer to 2 pounds*, *closer to  $2\frac{1}{2}$  pounds*, or *closer to 3 pounds*.

a. apples \_\_\_\_\_

b. bananas \_\_\_\_\_

c. grapes \_\_\_\_\_

d. oranges \_\_\_\_\_

4. Which purchase had a greater weight?

a. apples or grapes \_\_\_\_\_

b. oranges or bananas \_\_\_\_\_

## Remembering

Solve, using any method.

1.  $8 \overline{)1,219}$

2.  $3 \overline{)7,149}$

3.  $4 \overline{)4,038}$

Solve each comparison problem.

4. Mateo read 2,382 pages in a book series over the summer. This is 3 times the number of pages as his younger brother read over the summer. How many pages did Mateo's brother read over the summer?

\_\_\_\_\_

5. In Jen's town, there was 9 inches of snow in a year. In her cousin's town, there was 216 inches of snow in the same year. How many times the number of inches of snow was there in the cousin's town as in Jen's town?

\_\_\_\_\_

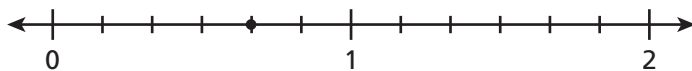
Write  $<$  or  $>$  to make each statement true.

6.  $\frac{2}{5} \bigcirc \frac{4}{5}$

7.  $\frac{1}{8} \bigcirc \frac{3}{8}$

8.  $\frac{4}{5} \bigcirc \frac{4}{6}$

9. **Stretch Your Thinking** Dakota says the point on the number line shown here is  $\frac{4}{5}$ . His teacher says that he is reading the number line incorrectly. What is Dakota's error? What is the correct fraction?



\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



**Homework**

1. Draw a small square, a medium square, and a large square.  
Shade  $\frac{1}{6}$  of each.
2. Draw a small circle, a medium circle, and a large circle.  
Shade  $\frac{3}{4}$  of each.
3. Draw a short rectangle, a medium rectangle, and a long rectangle. Shade  $\frac{3}{5}$  of each.
4. Look at the different size shapes you shaded in Problems 1–3. Describe what they show about fractions of different wholes.

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**Solve.***Show your work.*

5. Kris ate  $\frac{3}{8}$  of a pizza and Kim ate  $\frac{4}{8}$  of the same pizza. Did they eat the whole pizza? Explain.

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6. Amena ate  $\frac{1}{2}$  of a sandwich. Lavonne ate  $\frac{1}{2}$  of a different sandwich. Amena said they ate the same amount. Lavonne said Amena ate more. Could Lavonne be correct? Explain your thinking.

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## Remembering

Add or subtract.

$$\begin{array}{r} 1. \quad 8,159 \\ + 2,713 \\ \hline \end{array}$$

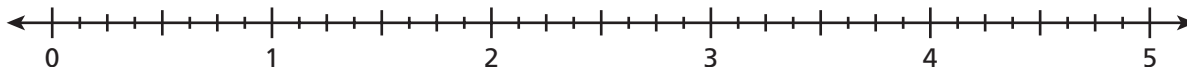
$$\begin{array}{r} 2. \quad 54,992 \\ + 8,317 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 625,000 \\ - 139,256 \\ \hline \end{array}$$

Use an equation to solve.

4. Chad harvested 39 potatoes from his garden. He kept 11 for himself and shared the remaining potatoes evenly among his 4 neighbors. How many potatoes did each neighbor get?
- \_\_\_\_\_

5. Mark and label the point for each fraction or mixed number with its letter.



a.  $3\frac{1}{8}$

b.  $1\frac{2}{4}$

c.  $\frac{3}{4}$

d.  $4\frac{7}{8}$

e.  $2\frac{1}{8}$

f.  $\frac{5}{8}$

g.  $2\frac{1}{4}$

h.  $1\frac{3}{8}$

i.  $3\frac{6}{8}$

j.  $4\frac{1}{2}$

6. **Stretch Your Thinking** Raylene made a bracelet with 28 beads. She also made a necklace with twice the number of beads as the bracelet. If  $\frac{1}{2}$  of the beads on the bracelet are green and  $\frac{1}{4}$  of the beads on the necklace are green, does the bracelet, the necklace, or neither have more green beads? Explain.
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

# Homework

Use the fraction strips to show how each pair is equivalent.

1.  $\frac{1}{3}$  and  $\frac{2}{6}$



$$\frac{1}{3} = \frac{1 \times \square}{3 \times \square} = \frac{2}{6}$$

2.  $\frac{3}{4}$  and  $\frac{9}{12}$



$$\frac{3}{4} = \frac{3 \times \square}{4 \times \square} = \frac{9}{12}$$

3.  $\frac{2}{5}$  and  $\frac{4}{10}$



$$\frac{2}{5} = \frac{2 \times \square}{5 \times \square} = \frac{4}{10}$$

4.  $\frac{2}{4}$  and  $\frac{6}{12}$



$$\frac{2}{4} = \frac{2 \times \square}{4 \times \square} = \frac{6}{12}$$

Complete to show how the fractions are equivalent.

5.  $\frac{5}{6}$  and  $\frac{35}{42}$

$$\frac{5}{6} = \frac{5 \times \square}{6 \times \square} = \frac{35}{42}$$

6.  $\frac{4}{10}$  and  $\frac{40}{\square}$

$$\frac{4}{10} = \frac{4 \times 10}{10 \times \square} = \frac{\square}{\square}$$

Complete.

7.  $\frac{4}{5} = \frac{4 \times \square}{5 \times \square} = \frac{\square}{45}$

8.  $\frac{2}{5} = \frac{2 \times \square}{5 \times \square} = \frac{\square}{40}$

9.  $\frac{3}{8} = \frac{3 \times \square}{8 \times \square} = \frac{18}{\square}$

## Remembering

Solve. Then explain the meaning of the remainder.

1. Doris is putting together gift bags. She has 53 favors to divide evenly among gift bags for 7 guests. How many favors will each guest get?

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Solve each problem.

2.  $2 \times 9 + 5 = r$

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3.  $36 \div (20 - 8) = t$

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Solve.

4. Mattie and Leah each bought an ice cream cone for the same price. Mattie said it cost her  $\frac{2}{3}$  of her allowance. Leah said it cost her  $\frac{1}{3}$  of her allowance. Who gets more allowance? Explain.

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5. **Stretch Your Thinking** Omar cuts a pizza into 4 slices and takes 3 of the slices. He says that he would have the same amount of pizza if he cut the pizza into 8 slices and takes 6 of the slices. Paul says he can cut the pizza into 16 slices and take 12 slices to have the same amount. Who is correct? Explain.

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# Homework

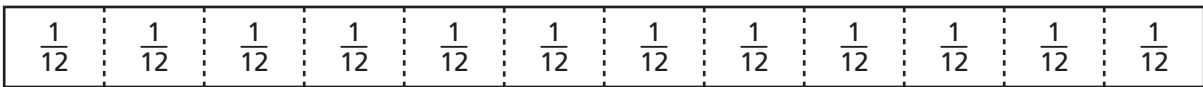
Shade the fraction bar to show the fraction of items sold.  
Group the unit fractions to form an equivalent fraction in simplest form. Show your work numerically.

1. The manager of Fantasy Flowers made 8 bouquets of wild flowers. By noon, she sold 2 of the bouquets. What fraction did she sell?



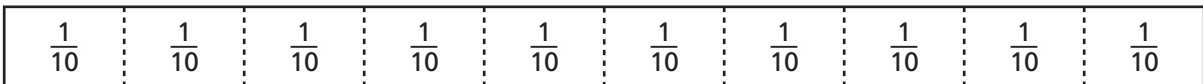
Group size: \_\_\_\_\_ Fraction of bouquets sold:  $\frac{2 \div}{8 \div} =$  \_\_\_\_\_

2. A car dealer had 12 red cars on his lot at the beginning of the month. The first week he sold 8 of them. What fraction did he sell that week?



Group size: \_\_\_\_\_ Fraction of red cars sold:  $\frac{8 \div}{12 \div} =$  \_\_\_\_\_

3. A music store received 10 copies of a new CD. They sold 6 of them in the first hour. What fraction did the store sell in the first hour?



Group size: \_\_\_\_\_ Fraction of CDs sold:  $\frac{6 \div}{10 \div} =$  \_\_\_\_\_

**Simplify each fraction.**

4.  $\frac{8 \div}{10 \div} =$  \_\_\_\_\_

5.  $\frac{6 \div}{12 \div} =$  \_\_\_\_\_

6.  $\frac{25 \div}{100 \div} =$  \_\_\_\_\_

7.  $\frac{4 \div}{8 \div} =$  \_\_\_\_\_

## Remembering

Tell whether 4 is a factor of each number. Write *yes* or *no*.

1. 12

\_\_\_\_\_

2. 20

\_\_\_\_\_

3. 10

\_\_\_\_\_

4. 26

\_\_\_\_\_

Tell whether each number is a multiple of 3. Write *yes* or *no*.

5. 15

\_\_\_\_\_

6. 32

\_\_\_\_\_

7. 27

\_\_\_\_\_

8. 25

\_\_\_\_\_

Name the fraction for each sum of unit fractions.

9.  $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} =$  \_\_\_\_\_

10.  $\frac{1}{12} + \frac{1}{12} + \frac{1}{12} + \frac{1}{12} + \frac{1}{12} + \frac{1}{12} =$  \_\_\_\_\_

11.  $\frac{1}{9} + \frac{1}{9} + \frac{1}{9} + \frac{1}{9} + \frac{1}{9} + \frac{1}{9} + \frac{1}{9} =$  \_\_\_\_\_

Complete.

12.  $\frac{3}{5} = \frac{3 \times \boxed{\phantom{000}}}{5 \times \boxed{\phantom{000}}} = \frac{21}{\boxed{\phantom{000}}}$

13.  $\frac{2}{9} = \frac{2 \times \boxed{\phantom{000}}}{9 \times \boxed{\phantom{000}}} = \frac{\boxed{\phantom{000}}}{36}$

14.  $\frac{5}{6} = \frac{5 \times \boxed{\phantom{000}}}{6 \times \boxed{\phantom{000}}} = \frac{15}{\boxed{\phantom{000}}}$

15. **Stretch Your Thinking** Explain two different ways to simplify  $\frac{6}{12}$ .

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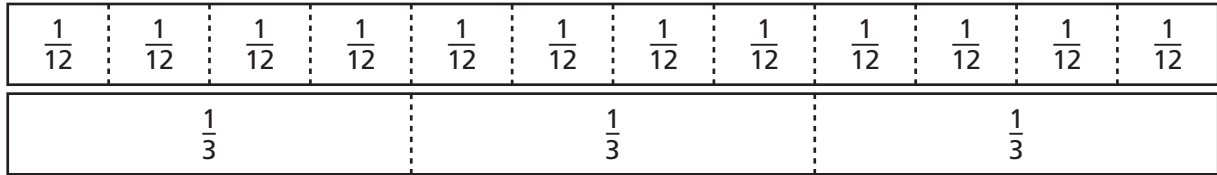
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# Homework

1. Use the fraction strips to compare the fractions

$$\frac{7}{12} \text{ and } \frac{2}{3}$$

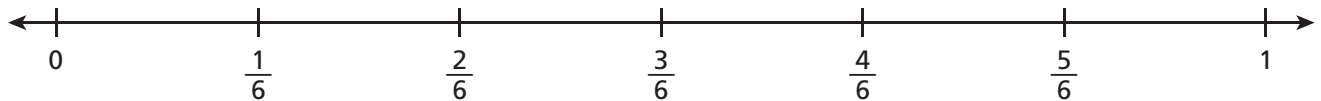
$$\frac{7}{12} \bigcirc \frac{2}{3}$$



2. Use the number lines to compare the fractions

$$\frac{5}{6} \text{ and } \frac{2}{3}$$

$$\frac{5}{6} \bigcirc \frac{2}{3}$$



Compare. Write  $>$ ,  $<$ , or  $=$ .

3.  $\frac{1}{6} \bigcirc \frac{3}{5}$

4.  $\frac{7}{8} \bigcirc \frac{3}{4}$

5.  $\frac{1}{4} \bigcirc \frac{3}{10}$

6.  $\frac{7}{10} \bigcirc \frac{5}{8}$

7.  $\frac{2}{3} \bigcirc \frac{1}{2}$

8.  $\frac{2}{5} \bigcirc \frac{7}{10}$

## Remembering

Write a number sentence to answer each question.

1. How many meters are equal to 58 kilometers?

\_\_\_\_\_

2. How many millimeters are equal to 17 centimeters?

\_\_\_\_\_

Name the fraction that will complete each equation.

3.  $1 = \frac{4}{4} = \frac{1}{4} + \underline{\hspace{2cm}}$

4.  $1 = \frac{8}{8} = \frac{2}{8} + \underline{\hspace{2cm}}$

5.  $1 = \frac{6}{6} = \frac{1}{6} + \underline{\hspace{2cm}}$

Simplify each fraction.

6.  $\frac{12 \div \boxed{\phantom{000}}}{15 \div \boxed{\phantom{000}}} = \underline{\hspace{2cm}}$

7.  $\frac{48 \div \boxed{\phantom{000}}}{56 \div \boxed{\phantom{000}}} = \underline{\hspace{2cm}}$

8.  $\frac{28 \div \boxed{\phantom{000}}}{36 \div \boxed{\phantom{000}}} = \underline{\hspace{2cm}}$

9.  $\frac{15 \div \boxed{\phantom{000}}}{40 \div \boxed{\phantom{000}}} = \underline{\hspace{2cm}}$

10. **Stretch Your Thinking** Kathleen, Penny, and Megan all order 12-ounce smoothies. After 5 minutes, Kathleen still has  $\frac{3}{4}$  left, Penny has  $\frac{5}{6}$  left, and Megan has  $\frac{5}{8}$  left. Who has the least amount of smoothie in their cup? Who has the greatest? Explain.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

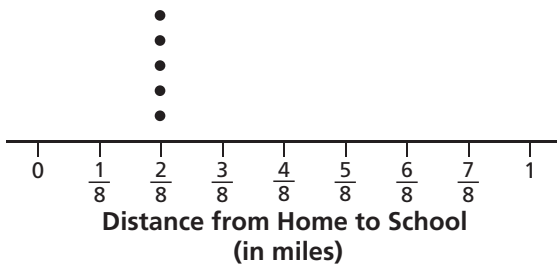


# Homework

Tyler asked his classmates the distance in miles from their home to the school. The distances they named are shown in the table.

Distance from Home to School (in miles)	Number of Students
$\frac{2}{8}$	5
$\frac{3}{8}$	3
$\frac{4}{8}$	4
$\frac{5}{8}$	5
$\frac{6}{8}$	3
$\frac{7}{8}$	7

1. Make a line plot of the data.



2. How many students did Tyler ask in all? Explain how you know.

\_\_\_\_\_

3. Find the difference between the greatest distance and the least distance.

\_\_\_\_\_

4. Layla lives the least distance from the school. Her friend Geneva lives  $\frac{3}{8}$  mile from her. Geneva walked to Layla's house. Then the two girls walked to school together. How far did Geneva walk altogether?

\_\_\_\_\_

# Remembering

Complete.

- How many liters are equal to 39 kL? \_\_\_\_\_
- How many milligrams are equal to 4 cg? \_\_\_\_\_

Solve.

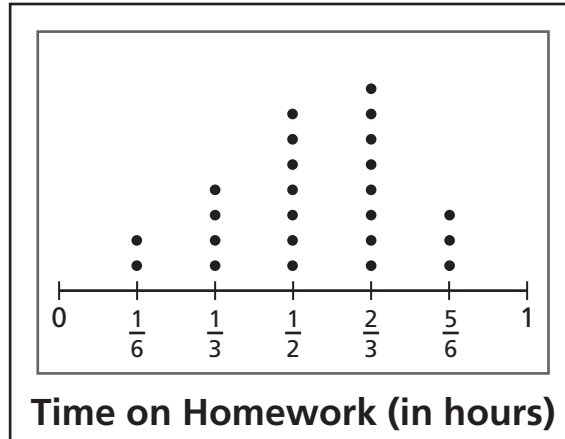
$$3. \frac{5}{9} + \frac{2}{9} = \underline{\hspace{2cm}} \qquad 4. \frac{4}{6} - \frac{1}{6} = \underline{\hspace{2cm}} \qquad 5. \frac{10}{11} - \frac{3}{11} = \underline{\hspace{2cm}}$$

Use a common denominator to compare the fractions.

Write  $<$ ,  $=$ , or  $>$  to make a true statement.

- $\frac{9}{10} \bigcirc \frac{2}{3}$
- $\frac{5}{8} \bigcirc \frac{3}{5}$
- $\frac{2}{3} \bigcirc \frac{5}{6}$
- $\frac{4}{14} \bigcirc \frac{2}{7}$
- $\frac{4}{5} \bigcirc \frac{4}{10}$
- $\frac{6}{8} \bigcirc \frac{5}{6}$

12. **Stretch Your Thinking** Mr. Brady asked his students how long it took each of them to complete their homework from the previous night. He presented the results in the line plot shown. How many minutes did the greatest number of students take to do their homework? How many combined hours did those particular students spend on homework? Explain.




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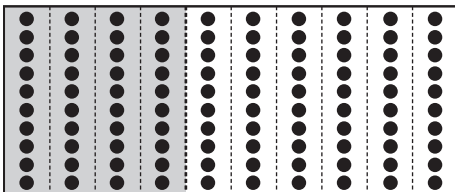
# Homework

Use the visual to fill in each blank.

1. The shaded part of the whole represents:

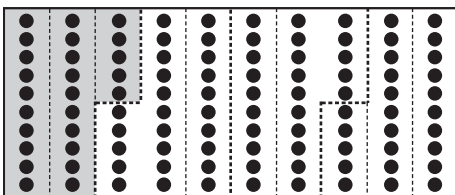
$$\frac{40}{100} = \text{_____ of _____ equal parts and the decimal _____}.$$

$$\frac{4}{10} = \text{_____ of _____ equal parts and the decimal _____}.$$



2. The shaded part of the whole represents:

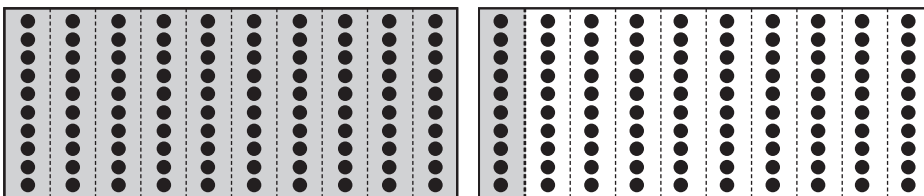
$$\frac{25}{100} = \text{_____ of _____ equal parts, } \frac{1}{4} = \text{_____ of _____ equal parts, and the decimal _____}.$$



3. The shaded part of the whole represents:

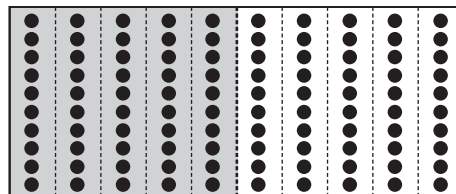
$$\frac{110}{100} = \text{_____ of _____ equal parts, } \frac{11}{10} = \text{_____ of _____ equal parts,}$$

$$1\frac{1}{10} = \text{_____ whole and _____ of _____ equal parts, and the decimal _____}.$$



Solve.

4. Juan shaded a part of the whole. Four fractions represent the shaded part of the whole. List each fraction. Explain how each fraction relates to the shaded part of the whole.




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## Remembering

Convert each measurement.

1. 12 hrs = \_\_\_\_\_ min

2. 2 months = \_\_\_\_\_ wks

3. 43 min = \_\_\_\_\_ sec

4. 6 days = \_\_\_\_\_ hrs

Write the equivalent mixed number.

5.  $\frac{12}{5} =$  \_\_\_\_\_

6.  $\frac{19}{4} =$  \_\_\_\_\_

7.  $\frac{15}{2} =$  \_\_\_\_\_

8.  $\frac{29}{3} =$  \_\_\_\_\_

9.  $\frac{49}{8} =$  \_\_\_\_\_

10.  $\frac{37}{6} =$  \_\_\_\_\_

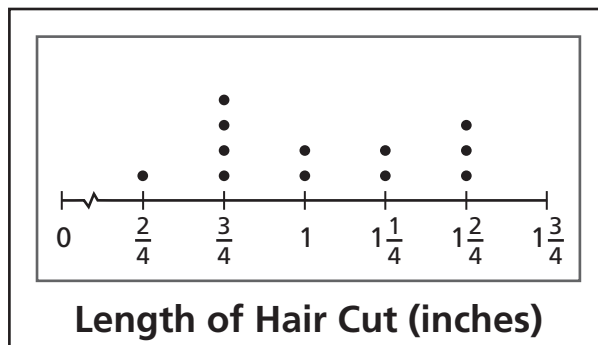
The line plot shows how much hair Emmy had cut each time she went to the hair dresser this year. Use the line plot to answer Exercises 11–12.

11. How many times did Emmy get her hair cut in the year?

\_\_\_\_\_

12. How much longer was the length of hair Emmy had cut most often than the length of hair she had cut least often?

\_\_\_\_\_



13. **Stretch Your Thinking** Milo has 3 quarters in his right pocket and 8 dimes in his left pocket. Show the amount of money Milo has in each pocket as a sum of fractions and as a sum of decimals. In which pocket is there more money?

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

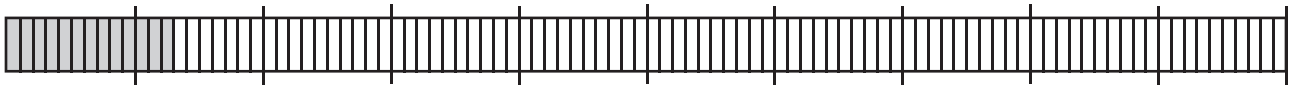
# Homework

Write a fraction and a decimal number to show what part of each bar is shaded.



1. Fraction: \_\_\_\_\_

Decimal Number: \_\_\_\_\_



2. Fraction: \_\_\_\_\_

Decimal Number: \_\_\_\_\_

Write these amounts as decimal numbers.

3. 5 tenths \_\_\_\_\_

4. 9 hundredths \_\_\_\_\_

5. 56 hundredths \_\_\_\_\_

6.  $\frac{80}{100}$  \_\_\_\_\_

7.  $\frac{3}{10}$  \_\_\_\_\_

8.  $\frac{1}{100}$  \_\_\_\_\_

9. 3 cents \_\_\_\_\_

10. 2 quarters \_\_\_\_\_

11. 3 nickels \_\_\_\_\_

Answer the questions below.

12. If you took a test with 10 questions and got 7 of them right, what decimal part would that be? \_\_\_\_\_  
What decimal part did you get wrong? \_\_\_\_\_

13. If you had a dollar and spent 5 cents, what decimal amount did you spend? \_\_\_\_\_ What decimal amount do you have left? \_\_\_\_\_

14. If you had a bag of 100 beads and used 40, what decimal number did you use? Express this number in both tenths and hundredths. \_\_\_\_\_

15. If you had to travel 100 miles and went 25 miles, what decimal part of the trip did you travel? \_\_\_\_\_  
What decimal part of the trip do you still have left? \_\_\_\_\_

# Remembering

Convert.

1. 7 ft = \_\_\_\_\_ in.

2. 4 mi = \_\_\_\_\_ yd

3. 15 yd = \_\_\_\_\_ ft

4. 2 yd = \_\_\_\_\_ in.

Add or subtract.

$$\begin{array}{r} 5. \quad 8\frac{4}{8} \\ + 2\frac{2}{8} \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 1\frac{1}{3} \\ + 7\frac{1}{3} \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad 5\frac{11}{12} \\ - 1\frac{5}{12} \\ \hline \end{array}$$

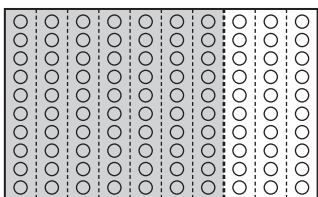
$$\begin{array}{r} 8. \quad 8\frac{2}{5} \\ - 7\frac{4}{5} \\ \hline \end{array}$$

Use the visual to fill in each blank.

9. The shaded part of the whole represents:

$\frac{70}{100}$  represents \_\_\_\_\_ of \_\_\_\_\_ equal parts  
and the decimal \_\_\_\_\_.

$\frac{7}{10}$  represents \_\_\_\_\_ of \_\_\_\_\_ equal parts  
and the decimal \_\_\_\_\_.



10. **Stretch Your Thinking** Rosemary put 7 dimes and 3 pennies in a tip jar at the café. Show this amount as a decimal and as a fraction. How much more change would Rosemary have to put in the tip jar to make a whole dollar?

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**Homework**

Write the decimal numbers that come next.

1. 0.05    0.06    0.07    \_\_\_\_\_    \_\_\_\_\_    \_\_\_\_\_    \_\_\_\_\_
2. 0.26    0.27    0.28    \_\_\_\_\_    \_\_\_\_\_    \_\_\_\_\_    \_\_\_\_\_
3. 0.3    0.4    0.5    \_\_\_\_\_    \_\_\_\_\_    \_\_\_\_\_    \_\_\_\_\_

Write each number in decimal form.

4. 9 tenths \_\_\_\_\_    5. 5 hundredths \_\_\_\_\_    6. 29 hundredths \_\_\_\_\_
7.  $\frac{73}{100}$  \_\_\_\_\_    8.  $\frac{2}{10}$  \_\_\_\_\_    9.  $\frac{8}{100}$  \_\_\_\_\_
10. 4 pennies \_\_\_\_\_    11. 3 quarters \_\_\_\_\_    12. 6 dimes and 1 nickel \_\_\_\_\_

Solve.

A small jar contains 4 white gumballs and 6 red gumballs.

13. What decimal number shows which part of the gumballs are red? \_\_\_\_\_
14. What decimal number shows which part of the gumballs are white? \_\_\_\_\_
15. A large jar of 100 gumballs has the same fractions of red gumballs and white gumballs as the small jar. How many gumballs in the large jar are red? \_\_\_\_\_ How many are white? \_\_\_\_\_

A sidewalk has 100 squares. There are cracks in 9 of the squares.

16. What decimal number shows what part of the sidewalk is cracked? \_\_\_\_\_
17. What fraction shows what part of the sidewalk is cracked? \_\_\_\_\_

Write each decimal tenth as a decimal hundredth.

18.  $0.6 =$  \_\_\_\_\_    19.  $0.2 =$  \_\_\_\_\_    20.  $0.5 =$  \_\_\_\_\_

# Remembering

**Solve.**

*Show your work.*

1. Mena bought a 1-gallon jug of water. How many 2-cup servings are in the jug?

\_\_\_\_\_

2. Kaden's filled backpack weighs 7 pounds. How many ounces does the backpack weigh?

\_\_\_\_\_

**Add or subtract.**

3.  $\frac{7}{8} - \frac{3}{8} =$

4.  $\frac{1}{4} + \frac{3}{4} =$

5.  $10\frac{11}{12} - 5\frac{4}{12} =$

6.  $\frac{2}{3} + \frac{2}{3} =$

7.  $\frac{4}{9} + 3\frac{4}{9} =$

8.  $8\frac{5}{6} - 4\frac{4}{6} =$

**Write these amounts as decimal numbers.**

9. 8 tenths \_\_\_\_\_

10. 5 hundredths \_\_\_\_\_

11. 27 hundredths \_\_\_\_\_

12.  $\frac{2}{100}$  \_\_\_\_\_

13.  $\frac{93}{100}$  \_\_\_\_\_

14.  $\frac{7}{10}$  \_\_\_\_\_

15. 46 pennies \_\_\_\_\_

16. 3 nickels \_\_\_\_\_

17. 9 dimes \_\_\_\_\_

18. **Stretch Your Thinking** Ben says that 0.80 is greater than 0.8 because 80 is greater than 8. Explain his error.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



**Homework**

Write each number in decimal form.

1. 6 tenths \_\_\_\_\_      2. 85 hundredths \_\_\_\_\_      3. 9 hundredths \_\_\_\_\_  
 4. 7 tenths \_\_\_\_\_      5.  $\frac{4}{100}$  \_\_\_\_\_      6.  $2\frac{9}{10}$  \_\_\_\_\_  
 7.  $\frac{23}{10}$  \_\_\_\_\_      8.  $11\frac{3}{100}$  \_\_\_\_\_      9. 6 cents \_\_\_\_\_  
 10. twelve *and* 5 tenths \_\_\_\_\_  
 11. thirty *and* 25 hundredths \_\_\_\_\_

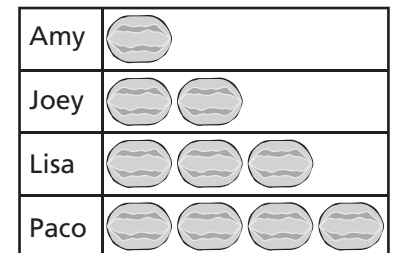
Write each decimal in expanded form.

12. 27.9 \_\_\_\_\_  
 13. 153.76 \_\_\_\_\_  
 14. 203.06 \_\_\_\_\_

Use the graph to answer questions 15–17.

15. What decimal part of all the melons did Amy pick? \_\_\_\_\_  
 16. What decimal part of all the melons did Paco pick? \_\_\_\_\_  
 17. What decimal part of all the melons did Joey and Lisa pick together? \_\_\_\_\_

**Melons Picked**



Key:  = 1 melon

**Solve.**

18. A centipede has 100 legs. What decimal part is one leg? \_\_\_\_\_  
 19. At a banquet, each cake was cut into 100 pieces. The guests ate 4 whole cakes and all but one piece of another. What decimal number represents the number of cakes that were eaten? \_\_\_\_\_  
 20. Miguel earned \$10 and saved \$3. What decimal part did he save? \_\_\_\_\_  
 21. Jing earned \$100, and saved \$30. What decimal part did she save? \_\_\_\_\_

# Remembering

Add or subtract.

$$\begin{array}{r} 1. \quad 5,000 \\ - 3,296 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 286,361 \\ + 45,743 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 863,542 \\ - 794,815 \\ \hline \end{array}$$

Multiply.

$$4. \quad 4 \times \frac{1}{5} =$$

$$5. \quad 9 \times \frac{2}{3} =$$

$$6. \quad 3 \times \frac{7}{8} =$$

$$7. \quad 2 \times \frac{5}{12} =$$

$$8. \quad 5 \times \frac{6}{7} =$$

$$9. \quad 7 \times \frac{9}{10} =$$

Write the decimal numbers that come next.

10. 0.03 0.04 0.05 \_\_\_\_\_

11. 0.2 0.3 0.4 \_\_\_\_\_

12. 0.75 0.76 0.77 \_\_\_\_\_

Write each decimal tenth as a decimal hundredth.

13.  $0.4 =$  \_\_\_\_\_

14.  $0.9 =$  \_\_\_\_\_

15.  $0.1 =$  \_\_\_\_\_

16.  $0.3 =$  \_\_\_\_\_

17.  $0.5 =$  \_\_\_\_\_

18.  $0.7 =$  \_\_\_\_\_

19. **Stretch Your Thinking** A handful of paperclips is 5.2 grams. A handful of push pins is 500 centigrams. Which handful weighs more? Explain.

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**Homework**

Write these amounts as decimal numbers.

1. 4 tenths \_\_\_\_\_

2. 72 hundredths \_\_\_\_\_

3. 6 hundredths \_\_\_\_\_

4. 8 cents \_\_\_\_\_

5.  $\frac{68}{100}$  \_\_\_\_\_

6.  $9\frac{4}{10}$  \_\_\_\_\_

7.  $\frac{16}{100}$  \_\_\_\_\_

8.  $6\frac{7}{100}$  \_\_\_\_\_

9. 30 hundredths \_\_\_\_\_

Circle the number that does not have the same value as the others.

10. 0.95    0.950    0.905

11. 0.2    0.20    0.02

12. 0.730    0.703    0.73

13. 1.6    1.60    1.06

14. 0.59    5.90     $\frac{59}{100}$

15. 0.08    0.008    0.080

Write  $>$ ,  $<$ , or  $=$  to compare these numbers.

16. 4.67 ○ 12.7    17. 0.35 ○ 0.4    18. 4.58 ○ 1.25    19. 8.3 ○ 0.83

20. 0.92 ○ 0.91    21. 2.3 ○ 0.84    22. 10.1 ○ 10.01    23. 7.4 ○ 0.74

The table shows how far four students jumped in the long jump contest. Use the table to answer the questions.

24. Whose jump was longest? \_\_\_\_\_

25. Whose jump was shortest? \_\_\_\_\_

26. Which two students jumped the same distance? \_\_\_\_\_

Long Jump Contest

Name	Length of Jump
Joshua	1.60 meters
Amanda	1.59 meters
Hester	1.7 meters
Miguel	1.6 meters

## Remembering

Choose a measurement unit for each rectangle and find the area and perimeter. Show your work.

1. 11 by 8

\_\_\_\_\_

\_\_\_\_\_

2. 5 by 9

\_\_\_\_\_

\_\_\_\_\_

3. 2 by 6

\_\_\_\_\_

\_\_\_\_\_

**Multiply.**

4.  $5 \cdot \frac{2}{3} =$  \_\_\_\_\_

5.  $12 \cdot \frac{1}{5} =$  \_\_\_\_\_

6.  $8 \cdot \frac{4}{7} =$  \_\_\_\_\_

7.  $6 \cdot \frac{3}{8} =$  \_\_\_\_\_

**Solve.**

8. There are 10 servings in a bag of pretzels. At a school picnic, 3 whole bags are eaten and 7 servings of another bag. What decimal number represents the number of bags of pretzels that are eaten?

\_\_\_\_\_

9. **Stretch Your Thinking** Lance says that you can compare any decimal numbers the way that you alphabetize words. You can tell which number is less (or which word comes first in the dictionary) by comparing each digit (or letter) from left to right. Is Lance's thinking correct? Give a numerical example to explain your reasoning.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Homework**

Write  $>$ ,  $<$ , or  $=$  to compare these numbers.

1.  $\frac{3}{4} \bigcirc \frac{2}{8}$

2.  $\frac{4}{10} \bigcirc \frac{4}{5}$

3.  $1\frac{3}{6} \bigcirc 2\frac{3}{6}$

4.  $1\frac{1}{6} \bigcirc 1\frac{1}{4}$

5.  $2\frac{7}{8} \bigcirc 2\frac{3}{7}$

6.  $1\frac{4}{9} \bigcirc 1\frac{5}{10}$

Complete.

7.  $\frac{3}{9} = \frac{3 \times \boxed{\phantom{00}}}{9 \times \boxed{\phantom{00}}} = \frac{\boxed{\phantom{00}}}{45}$

8.  $\frac{6}{10} = \frac{6 \times \boxed{\phantom{00}}}{10 \times \boxed{\phantom{00}}} = \frac{12}{\boxed{\phantom{00}}}$

9.  $\frac{5}{8} = \frac{5 \times \boxed{\phantom{00}}}{8 \times \boxed{\phantom{00}}} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$

10.  $\frac{24}{30} = \frac{24 \div \boxed{\phantom{00}}}{30 \div \boxed{\phantom{00}}} = \frac{\boxed{\phantom{00}}}{5}$

11.  $\frac{28}{35} = \frac{28 \div \boxed{\phantom{00}}}{35 \div \boxed{\phantom{00}}} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$

12.  $\frac{6}{18} = \frac{6 \div \boxed{\phantom{00}}}{18 \div \boxed{\phantom{00}}} = \frac{1}{\boxed{\phantom{00}}}$

Solve.

*Show your work*

13. Cole lives 2.4 miles from the library. Gwen lives 2.04 miles from the library. Xander lives 2.40 miles from the library. Who lives closest to the library: Cole, Gwen, or Xander?
- \_\_\_\_\_

14. After making his art project, Robbie has  $\frac{2}{10}$  yard of rope left. What is  $\frac{2}{10}$  written as a decimal?
- \_\_\_\_\_

# Remembering

**Solve.**

*Show your work.*

1. A 2-quart bottle of juice has 1,040 calories. Each serving is 1 cup. How many calories are in each serving of the juice?

---



---

2. The perimeter of a photograph is 20 inches. The longer side of the photograph is 6 inches. What is the length of the shorter side?

---

**Write an equation. Then solve.**

3. Peggy needs  $\frac{3}{4}$  cup of flour for each batch of pancakes. If she makes 5 batches of pancakes, how many cups of flour does she use?

---

**Compare. Use  $<$  or  $>$ .**

4.  $26.3 \bigcirc 8.3$

5.  $5.09 \bigcirc 5.9$

6.  $1.7 \bigcirc 7.1$

7.  $84.2 \bigcirc 8.42$

8.  $9.40 \bigcirc 9.04$

9.  $57 \bigcirc 5.7$

10.  $11.28 \bigcirc 12.8$

11.  $6.31 \bigcirc 6.13$

12. **Stretch Your Thinking** On the first day of a trip, the Brenner family hikes 2.8 miles. On the second day, they hike  $1\frac{2}{5}$  miles along a trail. They take a break, and hike back to where they started. Did they hike more the first day or the second day? Explain.

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# Homework

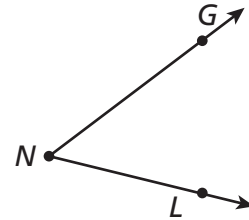
Draw each geometric figure.

1. a point

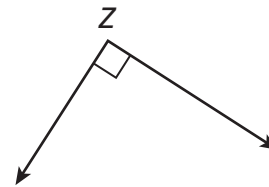
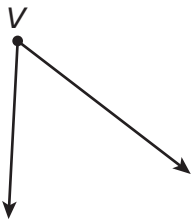
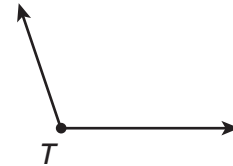
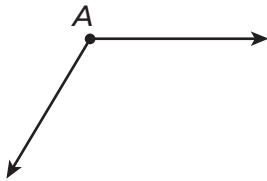
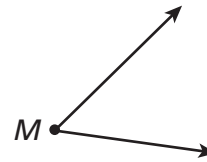
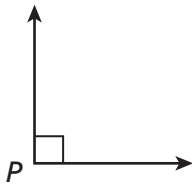
2. a ray

3. an angle

4. Name the angle shown. \_\_\_\_\_



Look at the angles below.



5. Which angles are right angles? \_\_\_\_\_

6. Which angles are acute angles? \_\_\_\_\_

7. Which angles are obtuse angles? \_\_\_\_\_

# Remembering

Add or subtract.

$$\begin{array}{r} 1. \quad 5\frac{4}{5} \\ + 3\frac{1}{5} \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 12\frac{5}{8} \\ - 4\frac{3}{8} \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 3\frac{5}{7} \\ + 9\frac{3}{7} \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 6\frac{2}{9} \\ - 2\frac{5}{9} \\ \hline \end{array}$$

Write  $<$  or  $>$  to make each statement true.

$$5. \quad \frac{3}{4} \bigcirc \frac{1}{4}$$

$$6. \quad \frac{5}{6} \bigcirc \frac{5}{4}$$

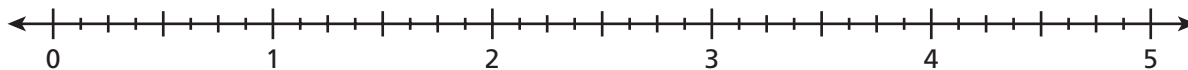
$$7. \quad \frac{7}{10} \bigcirc \frac{7}{12}$$

$$8. \quad \frac{6}{8} \bigcirc \frac{4}{8}$$

$$9. \quad \frac{4}{8} \bigcirc \frac{4}{12}$$

$$10. \quad \frac{17}{25} \bigcirc \frac{21}{25}$$

11. Mark and label the point for each fraction or mixed number with its letter.



a.  $2\frac{1}{2}$

b.  $3\frac{5}{8}$

c.  $\frac{1}{4}$

d.  $1\frac{4}{8}$

e.  $3\frac{1}{8}$

f.  $2\frac{3}{4}$

g.  $3\frac{1}{2}$

h.  $1\frac{7}{8}$

i.  $\frac{6}{8}$

j.  $4\frac{3}{8}$

12. **Stretch Your Thinking** Two spiders sit on the upper left corner of a window frame. One spider starts walking right along the top of the window frame. The other spider starts walking down along the left side of the window frame. Name each of the following using geometry terms.

a.) the place where the spiders began \_\_\_\_\_

b.) the walking path of each spider \_\_\_\_\_

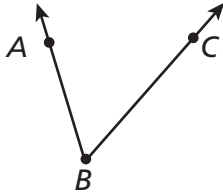
c.) the type of angle formed by their paths \_\_\_\_\_



# Homework

Use a protractor to find the measure of each angle.

1.



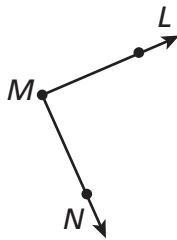
\_\_\_\_\_

2.



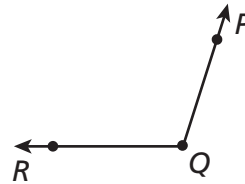
\_\_\_\_\_

3.



\_\_\_\_\_

4.



\_\_\_\_\_

Draw each angle.

5. an angle with measure  $75^\circ$ 6. an angle with measure  $150^\circ$ 

7. On a protractor there are two scales. Read one scale to find  $44^\circ$ . What is the measure on the other scale?

\_\_\_\_\_

8. Which would be greater, the measure of a right angle or the measure of an obtuse angle?

\_\_\_\_\_

# Remembering

**Solve.**

*Show your work.*

1. Presley ordered a small popcorn and Ella ordered a medium popcorn. They both ate  $\frac{3}{4}$  of their popcorn. Who ate more popcorn? Explain.

---



---

2. It takes both Jack and Scott 12 minutes to walk to school. Jack had his headphones on for  $\frac{2}{3}$  of the walk and Scott had his on for  $\frac{2}{5}$  of the walk. Who had their headphones on longer? Explain.

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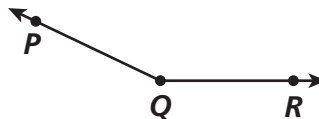
**Draw each geometric figure.**

3. a line segment

4. a line

5. an angle

6. Name the angle shown.




---

7. **Stretch Your Thinking** You can think of the two hands of a clock as rays of an angle. What type of angle do you see between the clock hands when the clock shows the following times? Draw a sketch, if you need to.

a.) 3:05 \_\_\_\_\_

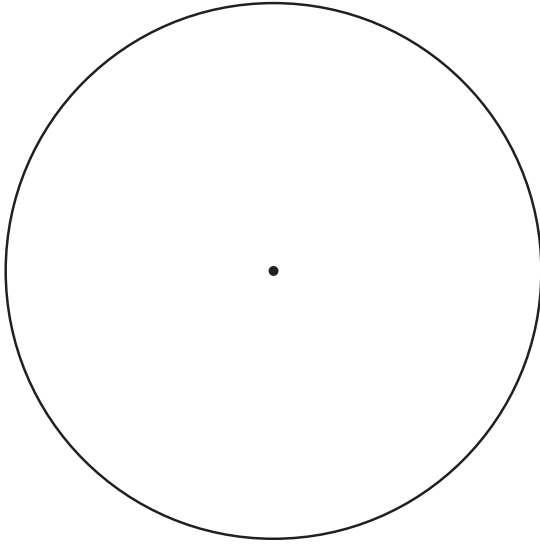
b.) 6:00 \_\_\_\_\_

c.) 9:10 \_\_\_\_\_

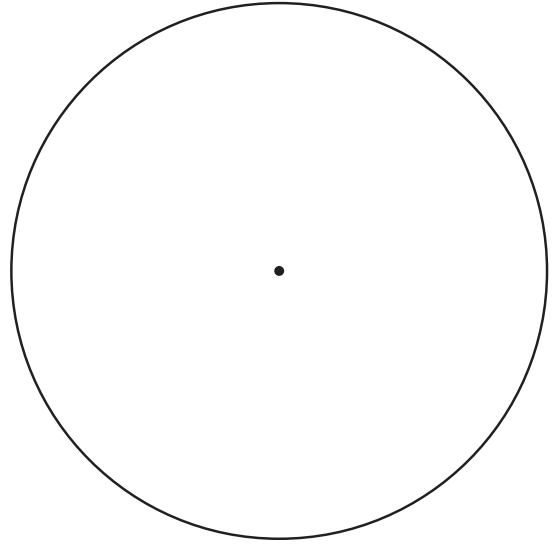
**Homework**

Use a straightedge and a protractor to draw and shade an angle of each type. Measure and label each angle.

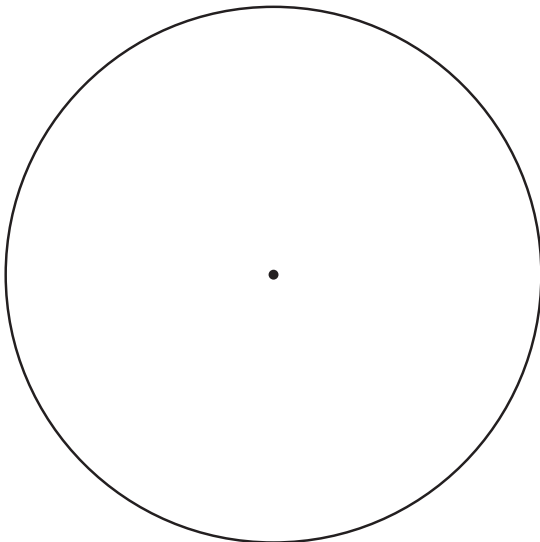
1. acute angle less than  $40^\circ$



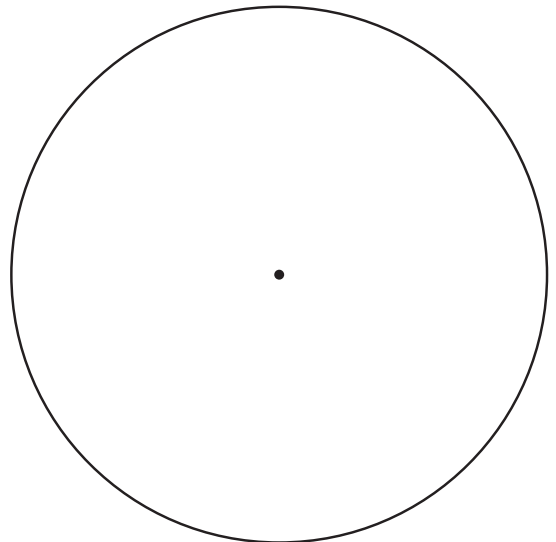
2. acute angle greater than  $40^\circ$



3. obtuse angle less than  $160^\circ$



4. four angles with a sum of  $360^\circ$



5. Write out the sum of your angle measures in Exercise 4 to show that the sum equals  $360^\circ$ .

\_\_\_\_\_

# Remembering

Complete.

$$1. \frac{4}{7} = \frac{4 \times \boxed{\phantom{000}}}{7 \times \boxed{\phantom{000}}} = \frac{12}{\boxed{\phantom{000}}}$$

$$2. \frac{5}{8} = \frac{5 \times \boxed{\phantom{000}}}{8 \times \boxed{\phantom{000}}} = \frac{\boxed{\phantom{000}}}{40}$$

$$3. \frac{8}{9} = \frac{8 \times \boxed{\phantom{000}}}{9 \times \boxed{\phantom{000}}} = \frac{32}{\boxed{\phantom{000}}}$$

$$4. \frac{1}{4} = \frac{1 \times \boxed{\phantom{000}}}{4 \times \boxed{\phantom{000}}} = \frac{12}{\boxed{\phantom{000}}}$$

$$5. \frac{3}{10} = \frac{3 \times \boxed{\phantom{000}}}{10 \times \boxed{\phantom{000}}} = \frac{\boxed{\phantom{000}}}{70}$$

$$6. \frac{2}{11} = \frac{2 \times \boxed{\phantom{000}}}{11 \times \boxed{\phantom{000}}} = \frac{12}{\boxed{\phantom{000}}}$$

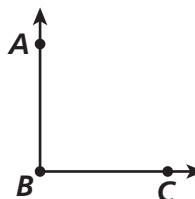
Use a protractor to find the measure of each angle.

7.



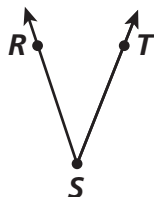
\_\_\_\_\_

8.



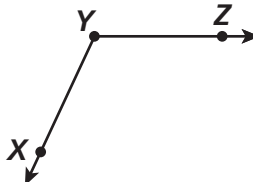
\_\_\_\_\_

9.



\_\_\_\_\_

10.



\_\_\_\_\_

11. **Stretch Your Thinking** Draw an angle with a measure of  $0^\circ$ . Describe your drawing.

\_\_\_\_\_

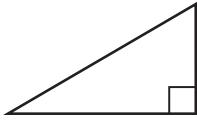
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# Homework

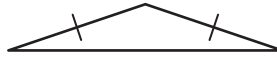
Name each triangle by its angles and then by its sides.

1.



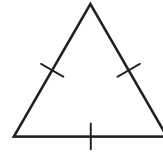
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2.



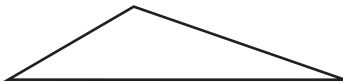
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3.



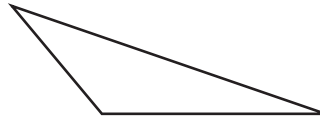
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4.



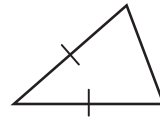
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5.



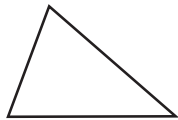
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6.



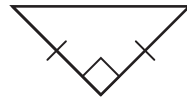
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7.



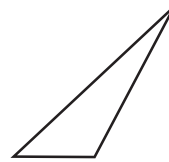
\_\_\_\_\_  
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8.



\_\_\_\_\_  
\_\_\_\_\_

9.



\_\_\_\_\_  
\_\_\_\_\_

10. Describe how acute, obtuse, and right triangles are different.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

11. Describe how scalene, isosceles, and equilateral triangles are different.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

# Remembering

Simplify each fraction.

$$1. \frac{9 \div \square}{12 \div \square} =$$

$$2. \frac{18 \div \square}{30 \div \square} =$$

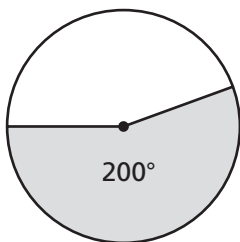
$$3. \frac{25 \div \square}{75 \div \square} =$$

$$4. \frac{32 \div \square}{72 \div \square} =$$

The measure of each shaded angle is given.

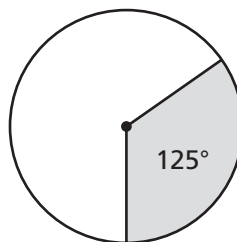
Write the measure of each angle that is not shaded.

5.



\_\_\_\_\_

6.



\_\_\_\_\_

7. **Stretch Your Thinking** Aileen is trying to correctly classify a triangle by its angles. Her only information is that the triangle has at least one acute angle. Aileen says this must be an acute triangle. Is she right? Explain.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

# Homework

Use a protractor to draw the two described angles next to each other. What is the measure of the larger angle they form when they are put together?

1. The measures of the two angles are  $20^\circ$  and  $55^\circ$ .

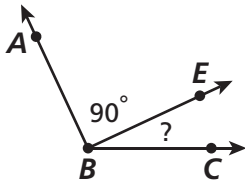
2. The measures of the two angles are  $65^\circ$  and  $95^\circ$ .

\_\_\_\_\_

\_\_\_\_\_

Write and solve an equation to find the unknown angle measure.

3.



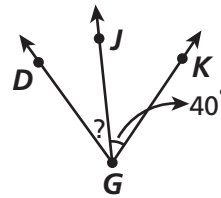
The measure of  $\angle ABC$  is  $115^\circ$ .

What is the measure of  $\angle EBC$ ?

\_\_\_\_\_

\_\_\_\_\_

4.



The measure of  $\angle DGK$  is  $70^\circ$ .

What is the measure of  $\angle DGJ$ ?

\_\_\_\_\_

\_\_\_\_\_

5. When two  $45^\circ$  angles are put together, what kind of angle will they form?

\_\_\_\_\_

# Remembering

Use a common denominator to compare the fractions.

Write  $>$ ,  $<$ , or  $=$  to make a true statement.

1.  $\frac{5}{8} \bigcirc \frac{1}{2}$

2.  $\frac{4}{6} \bigcirc \frac{6}{9}$

3.  $\frac{7}{12} \bigcirc \frac{2}{3}$

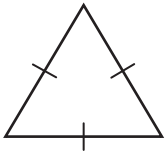
4.  $\frac{3}{10} \bigcirc \frac{2}{7}$

5.  $\frac{3}{4} \bigcirc \frac{5}{6}$

6.  $\frac{7}{12} \bigcirc \frac{19}{24}$

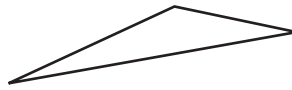
Name each triangle by its angles and then by its sides.

7.



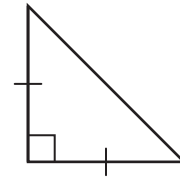
\_\_\_\_\_  
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8.



\_\_\_\_\_  
\_\_\_\_\_

9.



\_\_\_\_\_  
\_\_\_\_\_

10. **Stretch Your Thinking** Four angles are put together, forming a straight angle. Two of the angles are the same size. The other two angles are also the same size but different from the other two. If one of the four angles measures  $40^\circ$ , what are the measures of the other three angles? Explain.

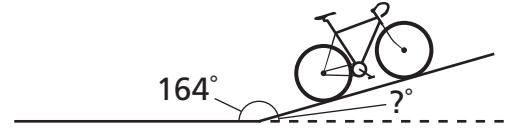
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# Homework

Write an equation to solve each problem.

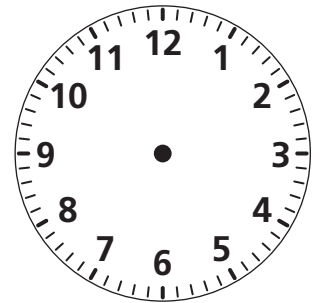
1. Suppose you are bicycling along a straight road that suddenly starts sloping up a hill. You want to know what the angle measure of the slope is, but you can't measure inside the hill.



If you are able to measure the angle on top of the road, however, you can use an equation to find the unknown measure. What is the angle of the slope of the hill shown?

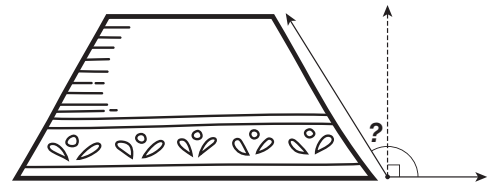
\_\_\_\_\_

2. On the clock face shown at the right, draw clock hands to show the times 3:00 and 5:00. One clock hand for each time will overlap with a clock hand from the other time. What is the difference between the measures of the angles formed by the hands of the clocks for the two times? (Hint: There are  $30^\circ$  between each pair of numbers on a clock.)



\_\_\_\_\_

3. A lampshade is often sloped, with the top narrower than the bottom. For the lampshade shown, the whole angle shown is  $122^\circ$ . Find the measure of the unknown angle to find by how much the lampshade is sloped from upright.



\_\_\_\_\_

# Remembering

The line plot shows the amount of cream put in a cup by each of a restaurant's lunch customers who ordered hot tea. Use the line plot for Problems 1–3.

1. How many customers ordered hot tea?

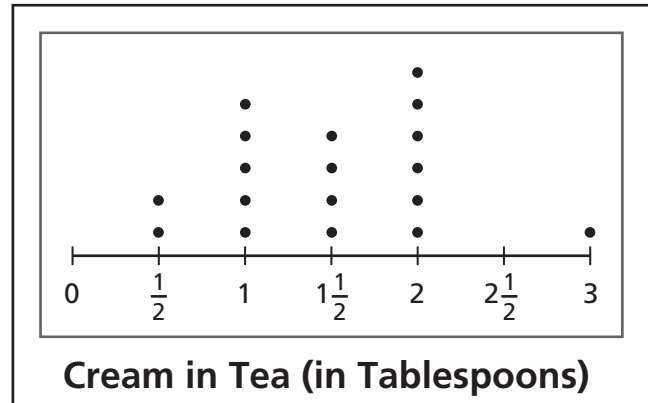
\_\_\_\_\_

2. How many customers used more than 1 tablespoon of cream?

\_\_\_\_\_

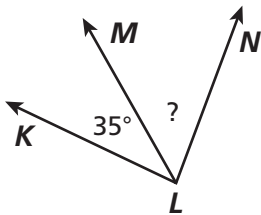
3. What is the difference between the greatest and least amount of cream the customers used?

\_\_\_\_\_



Use an equation to find the unknown angle measure.

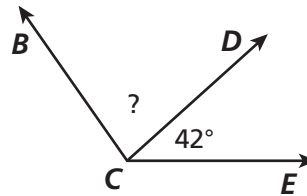
4.



The measure of  $\angle KLN$  is  $85^\circ$ .

\_\_\_\_\_

5.



The measure of  $\angle BCE$  is  $125^\circ$ .

\_\_\_\_\_

6. **Stretch Your Thinking** Hannah says that when the hands on a clock show 9:30, the angle is  $90^\circ$ . Jennie says the angle is obtuse. Who is correct? Explain. Make a drawing to show which girl is correct.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

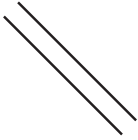
\_\_\_\_\_

\_\_\_\_\_

# Homework

Which of the line segments below look parallel? Which look perpendicular? Which look neither parallel nor perpendicular? Explain your thinking.

1.



Parallel: \_\_\_\_\_ Perpendicular: \_\_\_\_\_

\_\_\_\_\_

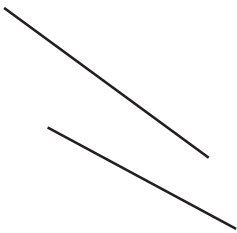
2.



Parallel: \_\_\_\_\_ Perpendicular: \_\_\_\_\_

\_\_\_\_\_

3.



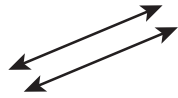
Parallel: \_\_\_\_\_ Perpendicular: \_\_\_\_\_

\_\_\_\_\_

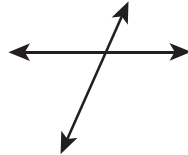
\_\_\_\_\_

Tell whether each pair of lines is parallel, perpendicular, or neither.

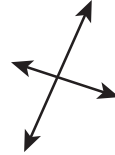
4.



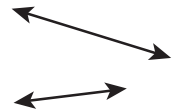
5.



6.



7.



\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

8. First draw a line segment 5 cm long. Then draw a line segment 7 cm long parallel to your first line segment.

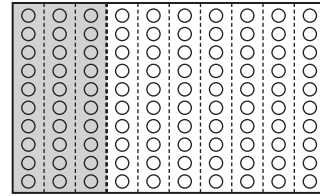
## Remembering

Use the visual to fill in each blank.

1. The shaded part of the whole represents:

$\frac{30}{100}$  represents \_\_\_\_\_ of \_\_\_\_\_ equal parts  
and the decimal \_\_\_\_\_.

$\frac{3}{10}$  represents \_\_\_\_\_ of \_\_\_\_\_ equal parts  
and the decimal \_\_\_\_\_.



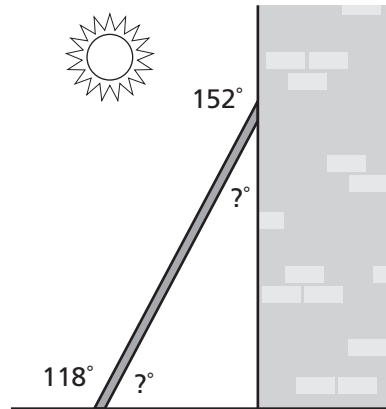
Write an equation to solve each problem.

2. A ladder leans up against a wall, as shown in the diagram. What angle measure does the ladder form with the wall?

\_\_\_\_\_

3. What angle measure does the ladder form with the ground?

\_\_\_\_\_



4. **Stretch Your Thinking** Look around the room. Describe 3 pairs of parallel line segments you see. Describe 3 pairs of perpendicular line segments.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

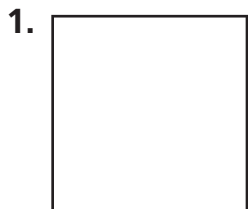
\_\_\_\_\_

\_\_\_\_\_

**Homework****VOCABULARY**

quadrilateral  
square  
trapezoid  
rhombus  
rectangle  
parallelogram

Using the Vocabulary box at the right, write the name of the quadrilateral that best describes each figure. Use each word once. Describe how it is different from other quadrilaterals.



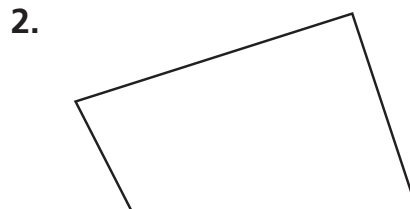

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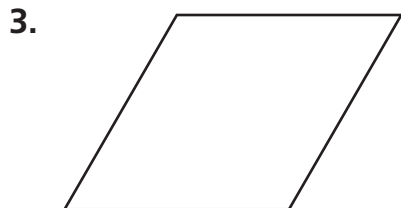

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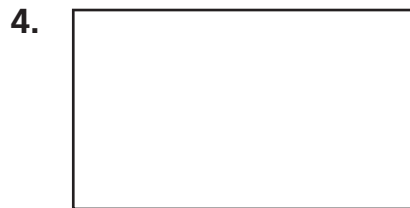

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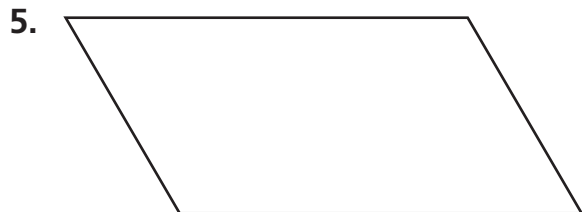

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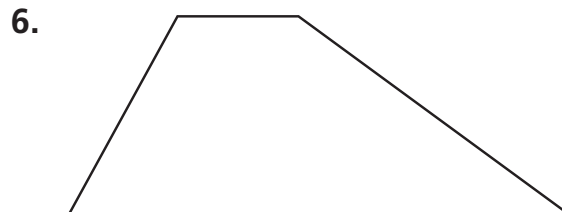

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## Remembering

Write these amounts as decimal numbers.

1. 3 tenths \_\_\_\_\_

2. 7 hundredths \_\_\_\_\_

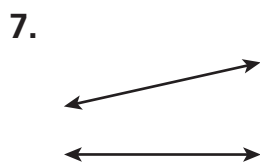
3. 56 hundredths \_\_\_\_\_

4.  $\frac{6}{100}$  \_\_\_\_\_

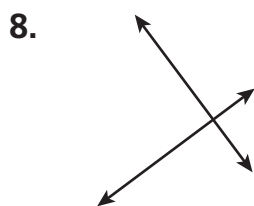
5.  $\frac{42}{100}$  \_\_\_\_\_

6.  $\frac{9}{10}$  \_\_\_\_\_

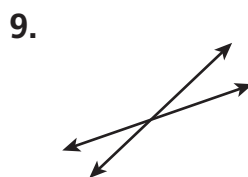
Tell whether each pair of lines is parallel, perpendicular, or neither.



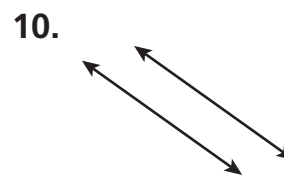
\_\_\_\_\_



\_\_\_\_\_



\_\_\_\_\_



\_\_\_\_\_

11. First draw a line segment 4 cm long. Then draw a line segment 3 cm long that is not parallel nor perpendicular to the first line.

12. **Stretch Your Thinking** Bianca has a certain shape in mind. She says it has all the following names: quadrilateral, parallelogram, and rectangle. Make a drawing that could be Bianca's shape. Explain why it has each of these names.

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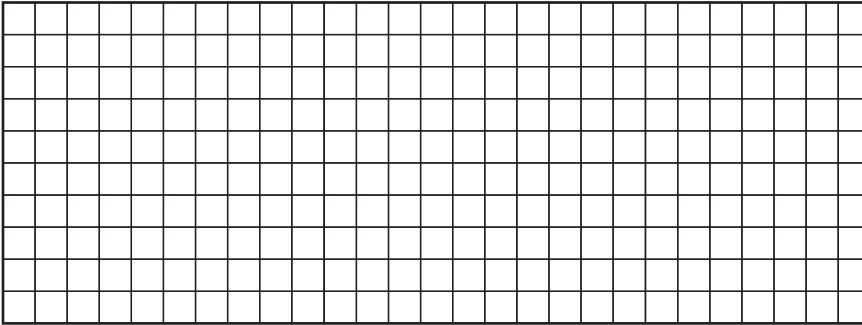
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# Homework

1. Draw a rectangle and a parallelogram. Draw one diagonal on each figure. Name the kinds of triangles you made.

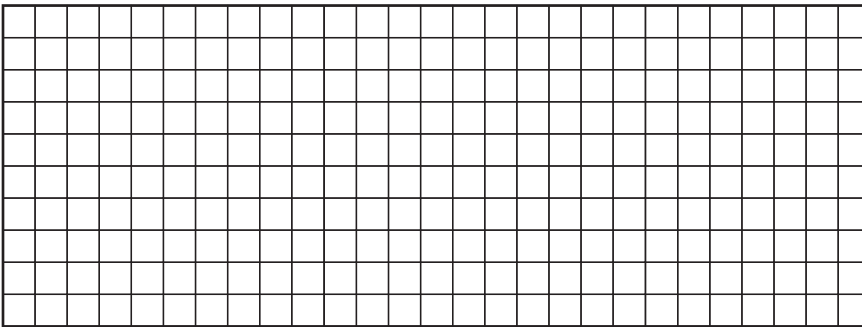



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2. Draw your figures again. Draw the other diagonal and name the kinds of triangles you made this time.




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3. Use geometry words to describe how diagonals of quadrilaterals make triangles.

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4. Use geometry words to describe a way to separate triangles into other triangles.

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# Remembering

Write the decimal numbers that come next.

1. 0.01    0.02    0.03    \_\_\_\_\_    \_\_\_\_\_    \_\_\_\_\_    \_\_\_\_\_
2. 0.3    0.4    0.5    \_\_\_\_\_    \_\_\_\_\_    \_\_\_\_\_    \_\_\_\_\_
3. 0.46    0.47    0.48    \_\_\_\_\_    \_\_\_\_\_    \_\_\_\_\_    \_\_\_\_\_

Using the Vocabulary box at the right, write the name of the quadrilateral that best describes each figure. Use each word once. Describe how it is different from other quadrilaterals.

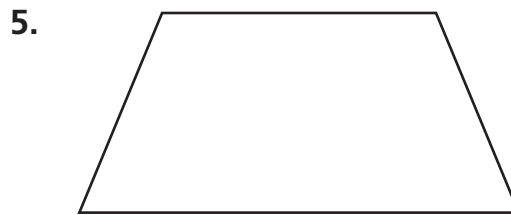
VOCABULARY  
trapezoid  
rectangle



\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

6. **Stretch Your Thinking** Suppose you drew a diagonal in each of the following quadrilaterals: rectangle, trapezoid, parallelogram. In which figures do triangles with the same size and shape form? In which figures do triangles with a different size and shape form? Explain.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

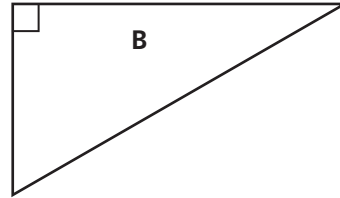
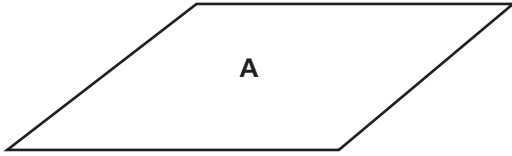
\_\_\_\_\_

\_\_\_\_\_



**Homework**

1. What are some different ways you could sort these three figures? Which figures would be in the group for each sorting rule?



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2. Draw a fourth figure to add to the figures in Exercise 1. Does it match any of the sorting rules you listed for Exercise 1?

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# Remembering

Write each amount in decimal form.

1. 8 tenths \_\_\_\_\_

2. 62 hundredths \_\_\_\_\_

3. 8 hundredths \_\_\_\_\_

4.  $3\frac{4}{10}$  \_\_\_\_\_

5.  $5\frac{37}{100}$  \_\_\_\_\_

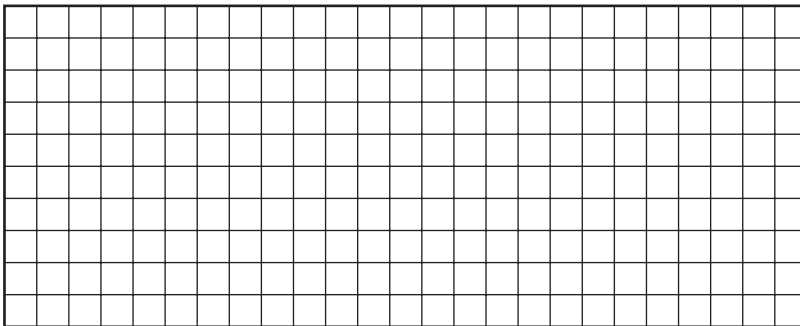
6.  $73\frac{1}{100}$  \_\_\_\_\_

7. 12 and 3 tenths  
\_\_\_\_\_

8. 9 and 82 hundredths  
\_\_\_\_\_

9. 45 and 6 hundredths  
\_\_\_\_\_

10. Draw a square and a rhombus. Draw one diagonal on each figure. Name the kinds of triangles you made.

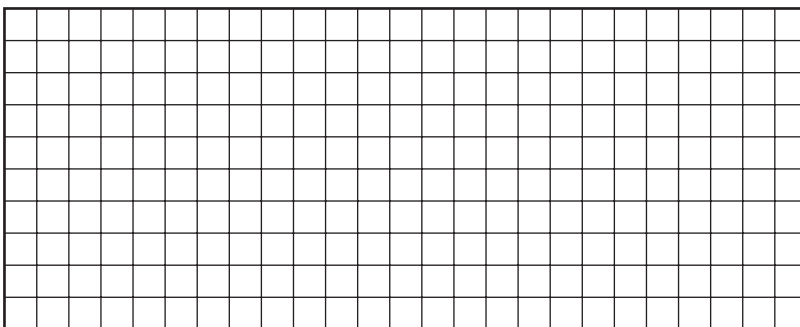



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11. Draw your figures again. Draw the other diagonal and name the kinds of triangles you made this time.




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12. **Stretch Your Thinking** Draw and name three polygons that each have at least one right angle. Label each right angle on the polygons.

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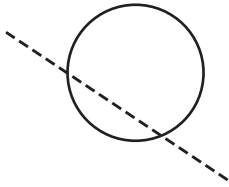


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**Homework**

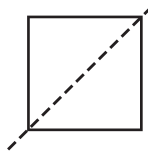
Tell whether the dotted line is a line of symmetry.

1.



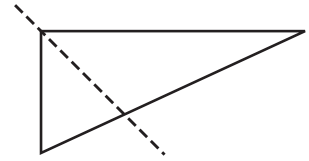
\_\_\_\_\_

2.



\_\_\_\_\_

3.



\_\_\_\_\_

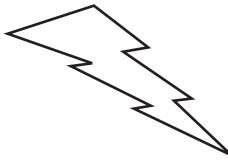
How many lines of symmetry does each figure have?

4.



\_\_\_\_\_

5.



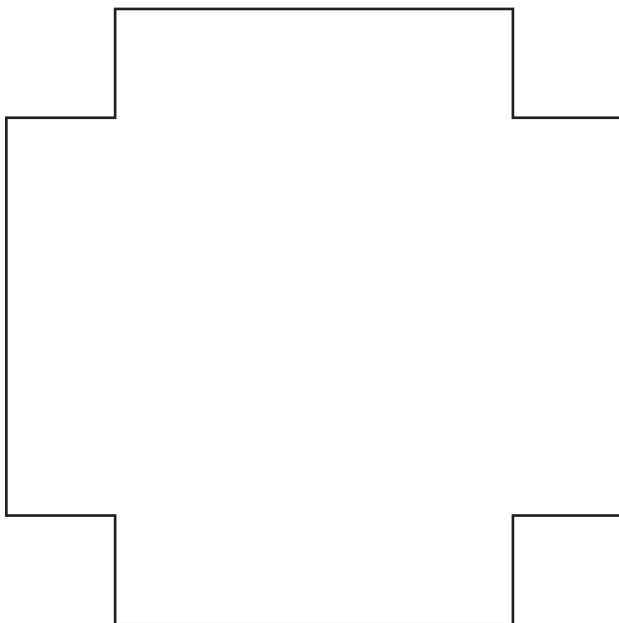
\_\_\_\_\_

6.



\_\_\_\_\_

7. Draw any lines of symmetry for this figure.



# Remembering

Add or subtract.

$$\begin{array}{r} 1. \quad 12,493 \\ + \quad 6,551 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 536,784 \\ - \quad 69,205 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 900,040 \\ - \quad 318,276 \\ \hline \end{array}$$

4. What are some different ways you could sort these three figures? Which figures would be in the group for each sorting rule?

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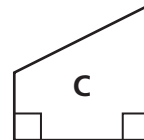
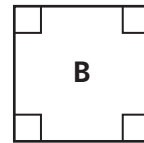
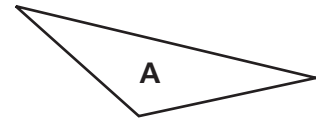
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5. Draw a fourth figure to add to the figures in Exercise 4. Does it match any of the sorting rules you listed for Exercise 4?

6. **Stretch Your Thinking** Consider only the shape and not the design of the following real life objects: square dinner plate, stop sign, American flag, letter P, letter M, tennis racket. Which of these objects have line symmetry? Which of these objects have more than one line of symmetry? Write the first letter of your first name. Does it have line symmetry?

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**Homework**

Draw a flag design. The design must include a quadrilateral with 2 lines of symmetry. The flag must also have a triangle with a  $45^\circ$  angle.

1. What type of quadrilateral did you draw? How did you make sure that the quadrilateral has 2 lines of symmetry?

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2. What type of triangle did you draw in the flag design? What tool did you use to make sure that the angle you drew measures  $45^\circ$ ?

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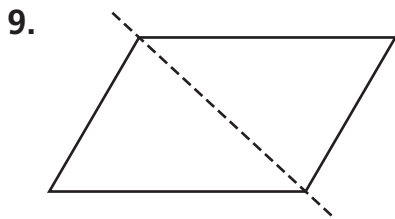
# Remembering

Insert  $<$  or  $>$  to make a true statement.

1.  $7.24 \bigcirc 72.4$     2.  $8.07 \bigcirc 8.7$     3.  $5.32 \bigcirc 3.52$     4.  $20.8 \bigcirc 2.08$

5.  $12.3 \bigcirc 3.12$     6.  $2.9 \bigcirc 29$     7.  $23.15 \bigcirc 24.1$     8.  $90.2 \bigcirc 9.02$

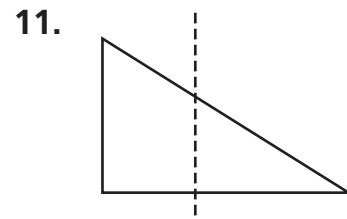
Tell whether the dotted line is a line of symmetry.



\_\_\_\_\_

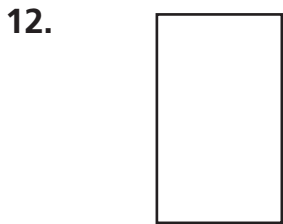


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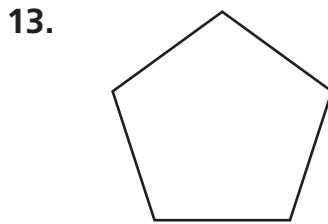


\_\_\_\_\_

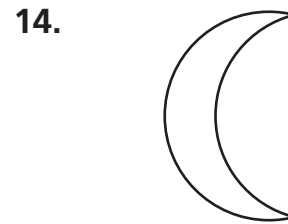
How many lines of symmetry does each figure have?



\_\_\_\_\_



\_\_\_\_\_



\_\_\_\_\_

15. **Stretch Your Thinking** Design a pennant for your school in the shape of an acute isosceles triangle. Within the design, include a quadrilateral with four right angles and at least one set of parallel lines.

\_\_\_\_\_