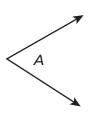
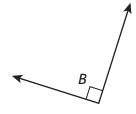
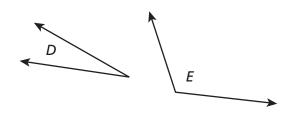
Look at the angles below.





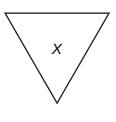




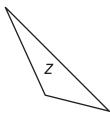
- 1. Which angles are right angles? \_\_\_\_\_
- 2. Which angles are larger than a right angle? \_\_\_\_\_\_
- 3. Which angles are smaller than a right angle? \_\_\_\_\_\_

Use the triangles for 4–7. Write *W*, *X*, *Y*, or *Z*. Then complete the sentences.









- 4. Triangle \_\_\_\_ has 3 angles smaller than a right angle and \_\_\_\_ sides of equal length.
- 5. Triangle \_\_\_\_ has 1 angle larger than a right angle and \_\_\_\_ sides of equal length.
- 6. Triangle \_\_\_\_ has 1 right angle and \_\_\_\_ sides of equal length.
- 7. Triangle \_\_\_\_ has 3 angles smaller than a right angle and \_\_\_\_ sides of equal length.

Draw an example of each figure described below. Then name the figure.

- 8. a polygon with 6 sides and 6 angles \_\_\_\_\_
- 9. a polygon with 4 sides and 4 angles \_\_\_\_\_
- 10. a polygon with 8 sides and 8 angles \_\_\_\_\_

Write the number for each place value drawing.

2.

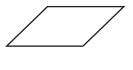
Write the number.

Solve each problem. Label your answer.

There are 147 third grade students going to the theater. Each row at the theater has ten seats.

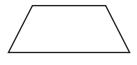
- 7. How many rows of seats will the third grade students fill?
- **8.** How many students will be seated in a row that isn't filled?
- **9. Stretch Your Thinking** Draw a right angle triangle with 0 sides of equal length.

1. Circle the figures that are parallelograms.











#### Read each sentence and write whether it is true or false.

- 2. All squares are rectangles.
- 3. All parallelograms are squares.
- **4.** All quadrilaterals are parallelograms.
- 5. The opposite sides of a square are always parallel.

Circle all the words that describe the figure.

6.





8.



square rectangle

parallelogram quadrilateral

parallelogram

quadrilateral

rectangle

trapezoid

rectangle

parallelogram

quadrilateral

rhombus

Round each number to the nearest hundred.

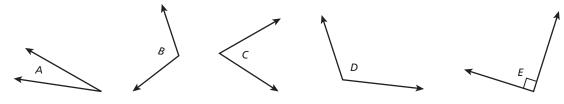
- **1.** 554 \_\_\_\_\_
- **2.** 748 \_\_\_\_\_
- **3.** 381 \_\_\_\_\_

Draw a Math Mountain and write an equation to solve each problem.

Show your work.

- **4. Take Apart** Abby is baking 12 rolls. She makes 8 of them plain. She makes the rest of them with cinnamon. How many rolls have cinnamon?
- **5. Add To** Danny has 9 CDs. He buys 5 more CDs at a yard sale. How many CDs does Danny have now?

Look at the angles below.

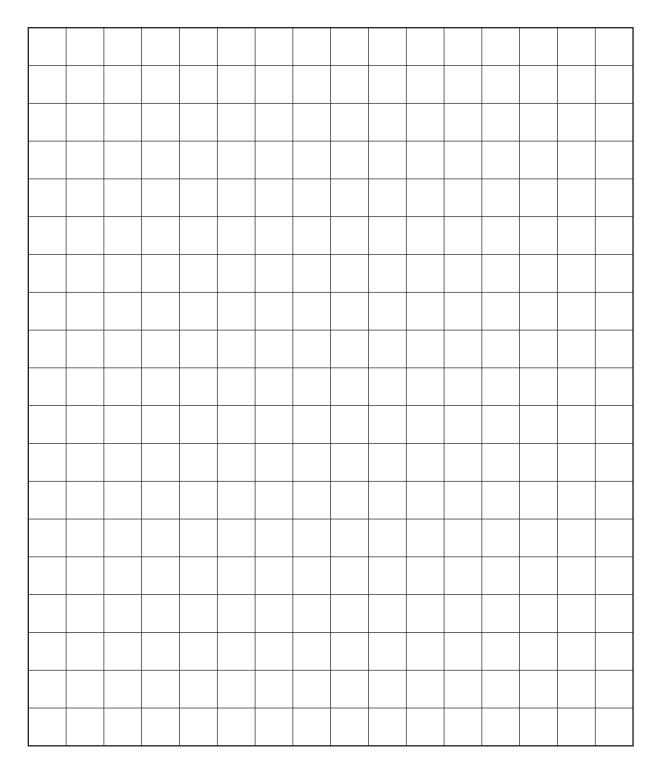


- **6.** Which angles are larger than a right angle? \_\_\_\_\_
- 7. Which angles are smaller than a right angle? \_\_\_\_\_
- 8. Which angles are right angles? \_\_\_\_\_
- 9. Stretch Your Thinking Explain how a square is a rectangle.

Date

# Homework

- 1. Draw a parallelogram with no right angles.
- 2. Draw a parallelogram with right angles.
- 3. Draw a rectangle with equal side lengths.



Use rounding to decide if the answer is reasonable. Then find the answer to see if you were right.

1. 
$$136 - 87 = 49$$

**2.** 
$$94 - 56 = 83$$

3. 
$$165 + 28 = 163$$

#### Solve each problem. Label your answers.

Show your work.

- 4. Sierra has 13 stuffed animals. Five of them are polar bears. The rest are penguins. How many penguins does Sierra have?
- 5. Ben has a CD tower with 54 CDs. There are 6 shelves. Each shelf has an equal number of CDs. How many CDs are on each shelf?

Circle all the words that describe the figure.

6.







parallelogram

rectangle

square

quadrilateral

parallelogram

rectangle

rectangle

quadrilateral

parallelogram

trapezoid

rhombus

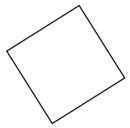
quadrilateral

9. Stretch Your Thinking Charlotte says her porch is a parallelogram that has four equal sides and no right angles. Draw a shape that matches the description of Charlotte's porch.

### Circle every name that describes the figure.



Homework

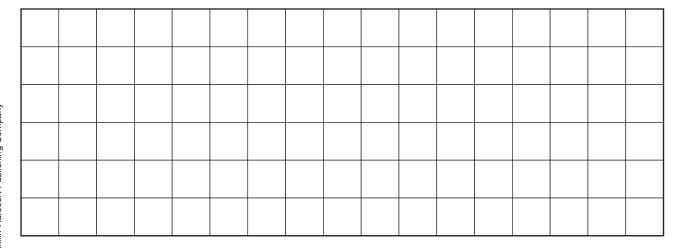




- quadrilateral
   parallelogram
   rectangle
   trapezoid
- 2. quadrilateral parallelogram rectangle square
- **3.** quadrilateral parallelogram rectangle square

#### Draw each figure.

- **4.** Draw a quadrilateral that is *not* a square.
- **5.** Draw a parallelogram that is *not* a square.



**6.** Explain why it is not possible to draw a square that is not a parallelogram.

Date

# Remembering

Unscramble the place values and write the number.

**1.** 4 ones + 6 hundreds \_\_\_\_\_

**2.** 2 ones + 3 hundreds + 5 tens \_\_\_\_\_

**3.** 8 tens + 9 hundreds \_\_\_\_\_

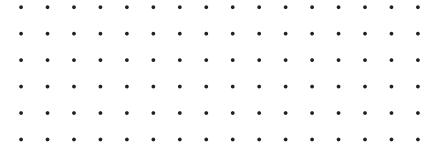
Solve each problem. Label your answers.

Show your work.

**4.** Autumn has some stickers. She uses 16 of them. Now she has 18 left. How many stickers did she start with?

**5.** Landon owns some video games. His friend owns 19 video games. Together they own 37 video games. How many video games does Landon own?

6. Draw a parallelogram with no right angles.



**7. Stretch Your Thinking** Draw a quadrilateral with sides that are not equal.



Draw each rectangle on the dot paper. Find the perimeter and area.

**1.** A rectangle 5 cm long and 3 cm wide

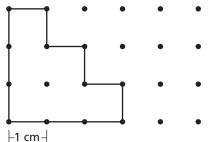


2. A rectangle 3 cm long and 3 cm wide

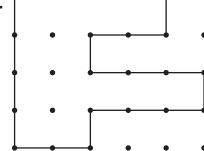


Find the perimeter and area of each figure. Remember to include the correct units in your answers.

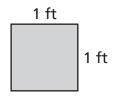
3.



4.



**5.** Harvey wants to paint one wall in his room with squares of different colors. He wants the sides of each square to measure 1 foot. He does not want to repeat any color. The wall is 8 feet high and 10 feet long. How many different colors does Harvey need?



# Solve the problem using a numerical method and a proof drawing.

1. The stadium snack bar has 478 cups in the dispenser. The manager opens up a new package, and puts 335 more cups into the dispenser. How many cups are now in the dispenser?

Draw and label Comparison Bars to show each situation.

- **2.** Marissa has 4 fewer strawberries than Amy has.
- **3.** Carter has 6 more books than Juliana has.

Circle every name that describes the figure.







- **4.** quadrilateral
  - parallelogram

rectangle

square

**5.** quadrilateral

parallelogram

rectangle

trapezoid

6. quadrilateral

parallelogram

rectangle

square

7. Stretch Your Thinking Draw a shape that has a perimeter of 12 cm and an area of 6 sq cm.

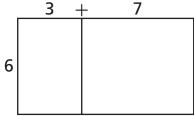
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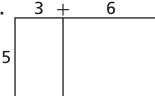
-1 cm-

Write an equation for the area of each rectangle.

1.

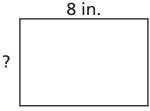


2.



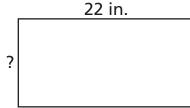
Find the unknown side length in each diagram.

3.



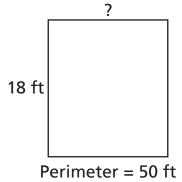
Area = 56 sq in.

4.

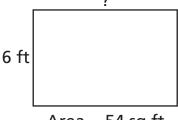


Perimeter = 66 in.

5.



6.



Area = 
$$54 \text{ sq ft}$$

Solve.

- 7. Sarah is lining a square tray with 1 inch square tiles.
  The side length of the tray is 9 inches. How many tiles does Sarah need?
- **8.** Mark is gluing a ribbon around the sides of a picture frame. The frame is 11 inches long and 7 inches wide. How much ribbon does Mark need?

#### Add or subtract.

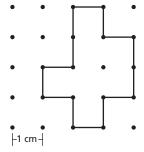
#### Solve each problem. Label your answers.

Show your work.

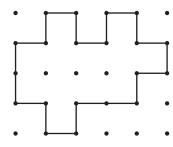
- **5.** Kenzie bakes 9 oatmeal cookies. Kenzie bakes 7 fewer cookies than Lisa. How many oatmeal cookies does Lisa bake?
- 6. Hayden reads 8 books over the summer. He reads 5 more books than Max. How many books does Max read?

Find the perimeter and area of each figure. Remember to include the correct units in your answers.

**7**.



8.



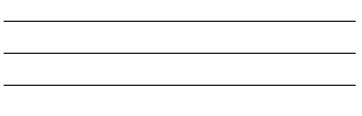
Perimeter = \_\_\_\_\_

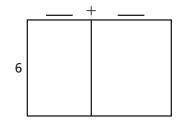
Perimeter = \_\_\_\_\_

Area = \_\_\_\_\_

Area = \_\_\_\_\_

**9. Stretch Your Thinking** Fill in the unknown numbers. Explain how you solved.





Area = 54 sq cm

#### Complete.

**1.** On a centimeter dot grid, draw all possible rectangles with a perimeter of 16 cm and sides whose lengths

are whole centimeters. Label the lengths of two adjacent sides of each rectangle.

- **2.** Find and label the area of each rectangle. Then complete the table.
- **3.** Compare the shapes of the rectangles with the least and greatest areas.

Rectangles with Peri	Rectangles with Perimeter 16 cm		
Lengths of Two Adjacent Sides	Area		

- **4.** On a centimeter dot grid, draw all possible rectangles with an area of 16 sq cm and sides whose lengths are whole centimeters. Label the lengths of two adjacent sides of each rectangle.
- **5.** Find and label the perimeter of each rectangle. Then complete the table.

**6.** Compare the shapes of the rectangles with the least and greatest perimeters.

Rectangles with Are	ectangles with Area 16 sq cm		
Lengths of Two Adjacent Sides	Perimeter		

#### **Students in Schools**

School	Number	
Rivers Elementary	269	
Pine Middle School	382	
Audubon High School	468	

Write an equation and solve the problem.

Show your work.

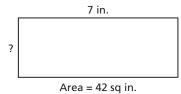
- **1.** What is the total number of students at Audubon High School and Rivers Elementary?
- **2.** The total number of which two schools is about 900 students?

Read the problem. Cross out any extra information or circle the hidden information. Then solve.

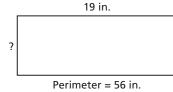
3. Brian has 8 rolls in one bag and a dozen in another bag. How many rolls does Brian have?

Find the unknown side length in each diagram.

4.



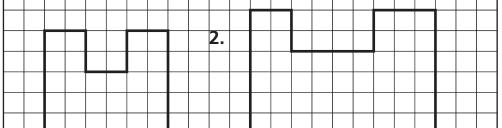
5.



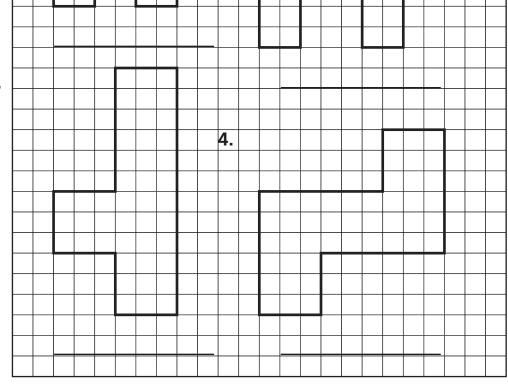
**6. Stretch Your Thinking** Give an example of a square that has the same number for its area and perimeter.

Decompose each figure into rectangles. Then find the area of the figure.

1.



3.



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**5.** Choose one figure from Exercises 1–4. Explain how and why you decomposed it as you did.

Make a proof drawing and subtract numerically. Show your ungroupings.

**1.** Mrs. Razaki has 235 programs to hand out at the concert. So far she has handed out 72. How many programs does she have left?

Write the first step question and answer. Then solve the problem.

2. Dominic puts his cars in 6 rows with 5 in each row. His sister changes them into 3 rows with the same number in each row. How many cars did she put in each row?

Complete.

- 3. On centimeter dot paper, draw all the possible rectangles with a perimeter of 12 cm and sides whose lengths are whole numbers. Label the lengths of two adjacent sides of each rectangle.
- **4.** Find and label the area of each rectangle. Then complete the table.
- **5. Stretch Your Thinking** Gwen decomposes the figure into 4 rectangles and 1 square. Draw lines on the figure to show how Gwen decomposed the figure. Then find the area.

#### Rectangles with Perimeter 12 cm

Lengths of Two Adjacent Sides	Area

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Solve. Circle whether you need to find a perimeter, an area, or an unknown side length. Draw a diagram to represent each situation.

Name

Show your work.

**Date** 

1. Carl is making a rectangular dog run. He has 36 one-yard sections of fence that he plans to use to keep his dog inside. He wants the run to be as long as possible. What is the longest whole-number length he can use for the run?

Perimeter

Area

Side Length

2. Bob has 37 tiles with dimensions of 1 foot by 1 foot. He wants to tile a closet that is 7 feet long and 5 feet wide. Does he have enough tiles? If so, how many more will be left over?

Perimeter

Area

Side Length

**3.** A stage is 10 yards long and 5 yards wide. The orchestra pit in front of the stage is 4 yards long and 2 yards wide. How much floor space do the stage and the orchestra pit take up?

Perimeter

Area

Side Length

**4.** Tracy embroidered 26 quilt blocks with letters and 10 quilt blocks with numbers. She wants her quilt to have 6 rows. How many quilt blocks will be in each row?

Perimeter

Area

Side Length

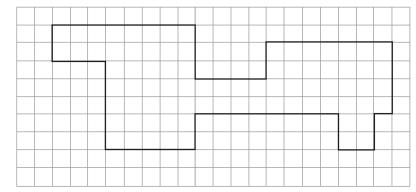
Subtract. Show your ungroupings. Use proof drawings if you need to.

Solve the problem. Label your answers.

4. Emma reads 16 pages of her book. Tom reads 7 fewer pages than Emma. How many pages do they read in all?

Decompose the figure into rectangles. Then find the area of the figure.

5.



6. Stretch Your Thinking Abbie makes two different quilts. Each quilt is a square. However, the quilts have different perimeters and areas. Describe the areas and perimeters the two quilts could have.

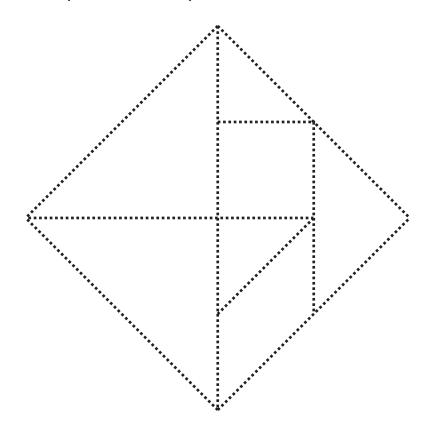
Quilt 1 \_\_\_\_\_\_ perimeter

Quilt 2 \_\_\_\_\_ area \_\_\_\_\_ perimeter

**Date** 

### Homework

- 1. Color the two large triangles purple.
- 2. Color the two small triangles green.
- **3.** Color the square, the parallelogram, and the medium triangle blue.
- 4. Cut out the tangram pieces.
- 5. Use the pieces to make other tangram shapes.
- **6.** Choose one shape and copy it on a separate sheet of paper.
- **7.** Find the area of the shape you made. Remember, the square is one square inch.



#### Solve the problem.

1. David buys a package of 375 straws. He uses 182 to build a bridge for a project. How many straws does he have left?

The table below shows the number of vehicles in the parking garage on Monday and Tuesday.

#### **Vehicles in the Garage**

		Trucks	Cars	SUVs
	Monday	49	129	163
	Tuesday	68	207	235

#### Write an equation and solve the problem.

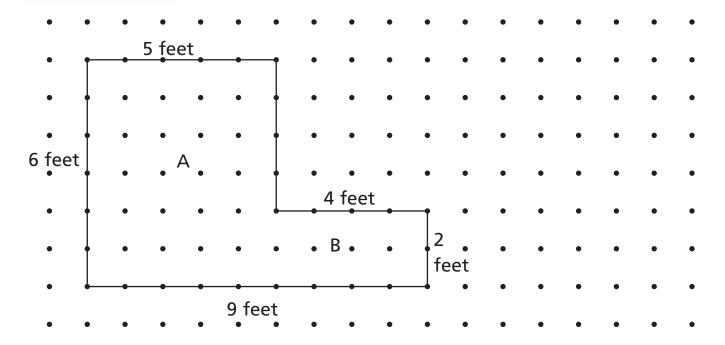
- **2.** How many vehicles in all were parked in the garage on Tuesday?
- 3. How many more trucks and cars combined were parked on Monday than SUVs?

Solve. Circle whether you need to find a perimeter, an area, or an unknown side length. Draw a diagram to represent the situation.

4. Brian buys a package of 25 one-inch square tiles. He wants to make a mosaic picture 5 inches long and 4 inches wide. Does he have enough tiles? If so, how many more will be left over?

Perimeter Area Side Length

**5.** Stretch Your Thinking Which tangram pieces can make a square with the area of 9 square inches? Remember, the square is one square inch.



#### Use the drawing above to solve the problems.

- 1. Elton wants to plant grass seed in his backyard. The two parts of his yard are shaped like rectangles. He will use 1 cup of grass seed for every square foot in his yard. How many cups will he use?
- **2.** Elton wants to put a picket fence around the outside of his backyard. How many feet of fencing will he need?
- **3.** To the right of the garden, draw a different shape that has the same perimeter as part A of Elton's garden. What is the area of your shape?

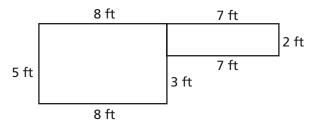
**UNIT 6 LESSON 11** 

#### Solve.

- 1. The concert hall has an audience of 831 people. Special passes to meet the musicians are given to 162 people. How many people do not receive the special passes?
- 2. The art teacher orders 297 sheets of construction paper, 104 sheets of glitter paper, and 185 sheets of metallic paper. How many sheets of paper does she order?

Write an equation and solve the problem.

- **3.** Dexter buys a package of 38 plates. He already has 4 plates. He puts an equal number on each of 6 tables. How many plates are on each table?
- **4.** Use the tangram pieces to make shapes. Choose one shape and copy it on a separate sheet of paper. Find the area of the shape you made. Remember, the square is one square inch.
- 5. Stretch Your Thinking Anna has 30 feet of fence to go around her garden. The lettuce will be in a 8 ft × 5 ft section and the carrots will be in a 2 ft × 7 ft section. Will



her layout work? If not, how can she change it to work?