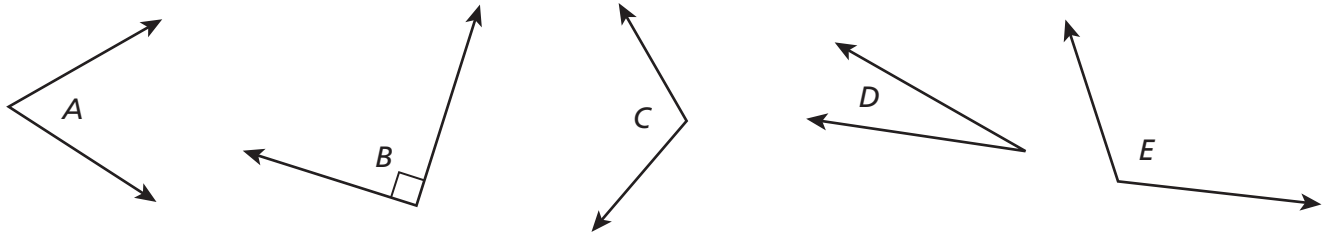


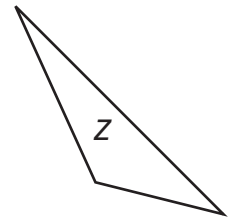
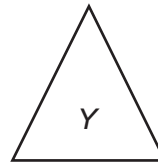
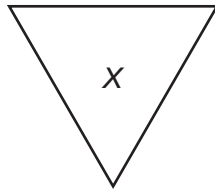
Homework

Look at the angles below.



1. Which angles are right angles? B
2. Which angles are larger than a right angle? C and E
3. Which angles are smaller than a right angle? A and D

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



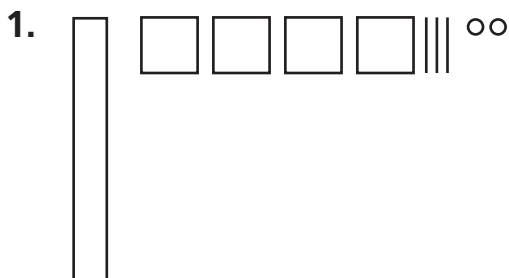
4. Triangle X has 3 angles smaller than a right angle and 3 sides of equal length.
5. Triangle Z has 1 angle larger than a right angle and 0 sides of equal length.
6. Triangle W has 1 right angle and 0 sides of equal length.
7. Triangle Y has 3 angles smaller than a right angle and 2 sides of equal length.

Draw an example of each figure described below. Then name the figure. *Check students' drawings.*

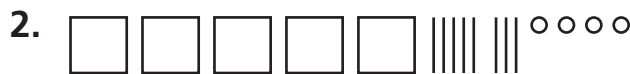
8. a polygon with 6 sides and 6 angles hexagon
9. a polygon with 4 sides and 4 angles quadrilateral
10. a polygon with 8 sides and 8 angles octagon

Remembering

Write the number for each place value drawing.



1,432



584

Write the number.

3. $600 + 30 + 8 =$ 638

4. $200 + 50 + 1 =$ 251

5. 8 hundreds + 7 ones = 807

6. 2 thousands + 2 tens + 4 ones = 2,024

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?

14 rows

8. How many students will be seated in a row that isn't filled?

7 students

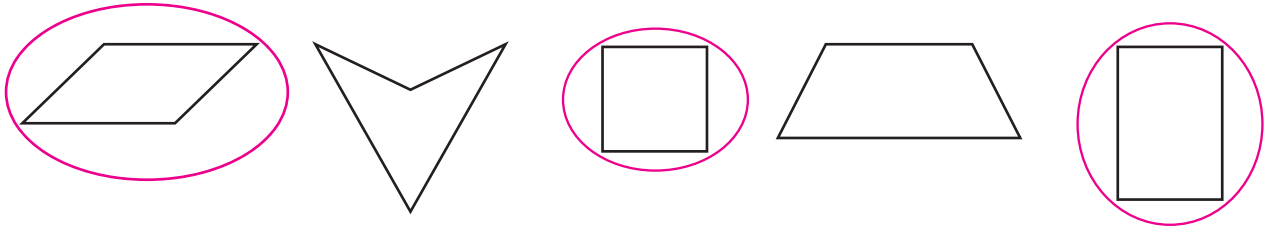
9. **Stretch Your Thinking** Draw a right angle triangle with 0 sides of equal length.

Check students' drawings. Possible drawing shown.



Homework

1. Circle the figures that are parallelograms.



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

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

Circle all the words that describe the figure.

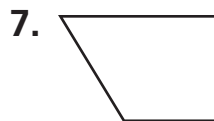


square

rectangle

parallelogram

quadrilateral

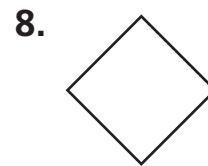


parallelogram

quadrilateral

rectangle

trapezoid



rectangle

parallelogram

quadrilateral

rhombus

Remembering

Round each number to the nearest hundred.

1. 554 600

2. 748 700

3. 381 400

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

Show your work.

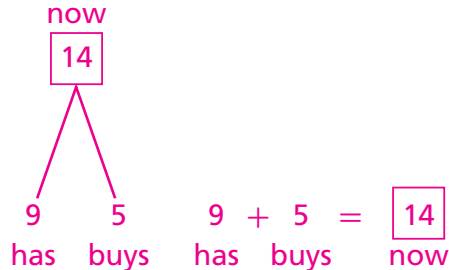
4. **Take Apart** Abby is baking 12 rolls. She makes 8 of them plain. She makes the rest of them with cinnamon. How many rolls have cinnamon?

4 rolls

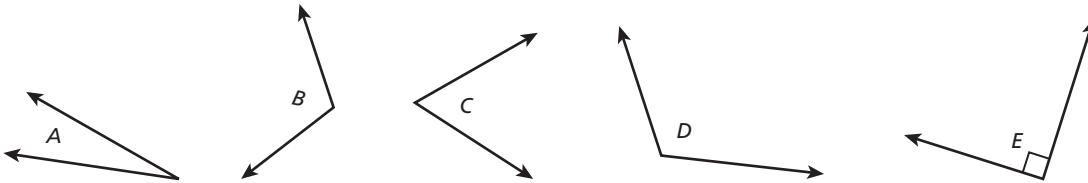


5. **Add To** Danny has 9 CDs. He buys 5 more CDs at a yard sale. How many CDs does Danny have now?

14 CDs



Look at the angles below.



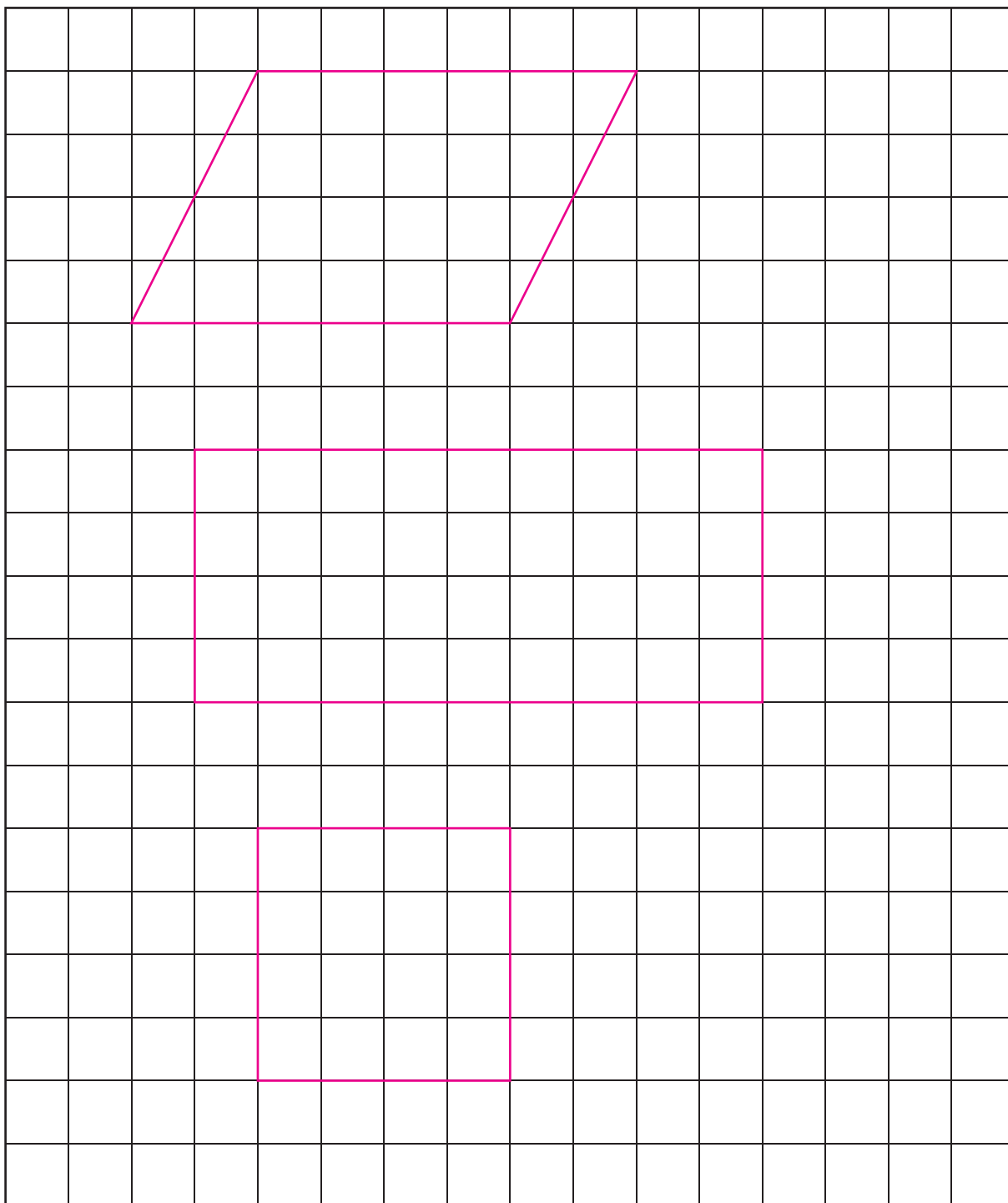
6. Which angles are larger than a right angle? B and D
7. Which angles are smaller than a right angle? A and C
8. Which angles are right angles? E

9. **Stretch Your Thinking** Explain how a square is a rectangle.

Possible answer: A rectangle has 2 pairs of sides of equal length and 4 right angles. A square also has 4 right angles. A square is a special rectangle because all the sides are the same length.

Homework

1. Draw a parallelogram with no right angles.
2. Draw a parallelogram with right angles.
3. Draw a rectangle with equal side lengths. *Drawings will vary.*



Remembering

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

1. $136 - 87 = 49$

reasonable; 49

2. $94 - 56 = 83$

not reasonable; 38

3. $165 + 28 = 163$

not reasonable; 193

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?

8 penguins

Check student's work.

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?

9 CDs

Circle all the words that describe the figure.

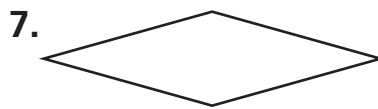


parallelogram

quadrilateral

rectangle

trapezoid

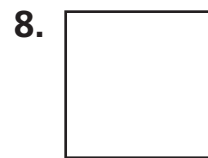


rectangle

parallelogram

quadrilateral

rhombus



square

rectangle

parallelogram

quadrilateral

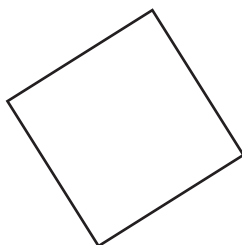
9. **Stretch Your Thinking** Charlotte says her porch is a parallelogram that has four equal sides and no right angles. Draw a shape that matches the description of Charlotte's porch. *Check student's drawings. Drawings should be in the shape of a rhombus.*

Homework

Circle every name that describes the figure.



1. quadrilateral
 parallelogram
 rectangle
trapezoid



2. quadrilateral
parallelogram
rectangle
square

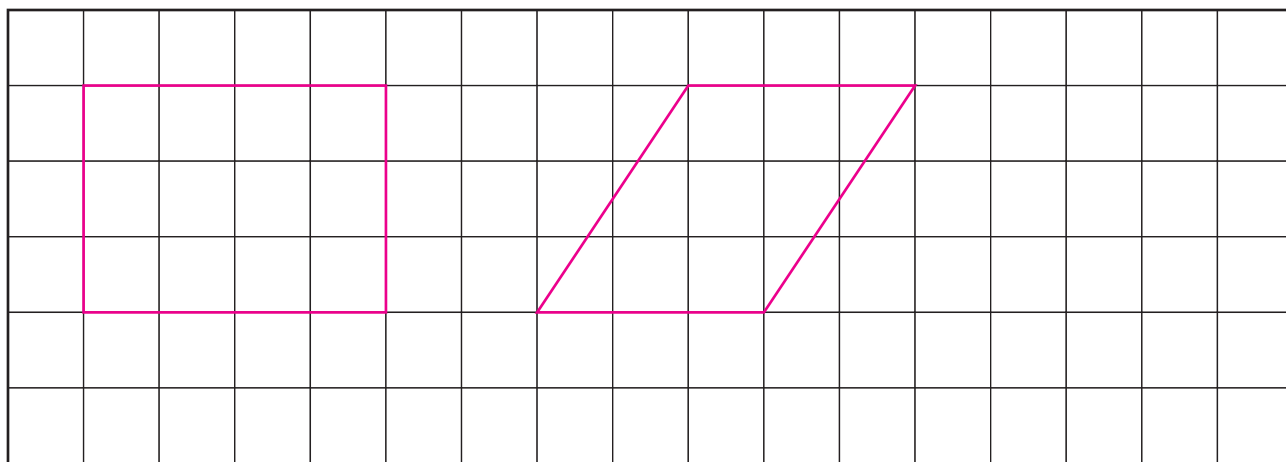


3. quadrilateral
parallelogram
 rectangle
 square

Draw each figure. Possible drawings are shown.

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.

Since all squares have two pairs of opposite sides that are parallel, all squares are parallelograms.

Remembering

Unscramble the place values and write the number.

1. 4 ones + 6 hundreds 604

2. 2 ones + 3 hundreds + 5 tens 352

3. 8 tens + 9 hundreds 980

Solve each problem. Label your answers.

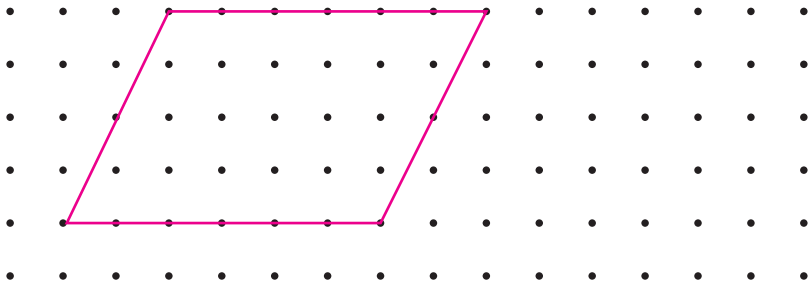
Show your work.

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

Check student's work.

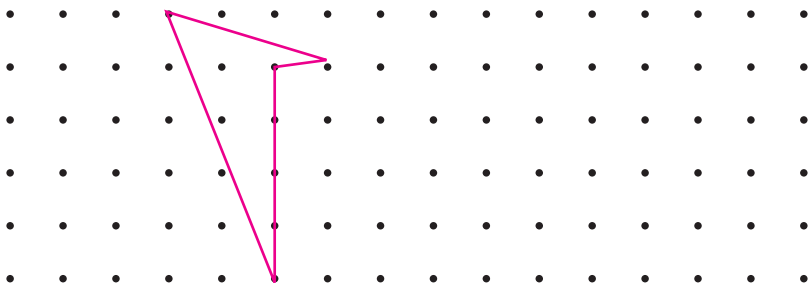
5. Landon owns some video games. His friend owns 19 video games. Together they own 37 video games. How many video games does Landon own?
 18 video games

6. Draw a parallelogram with no right angles. **Drawings will vary.**



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

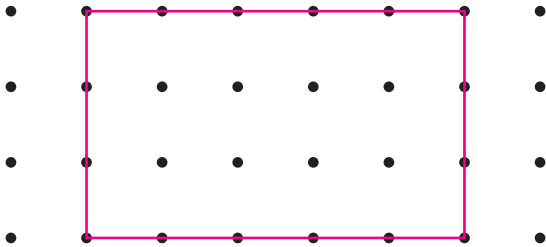
Check student's drawings. Drawings should be of a shape with four sides that are not equal in length. Possible drawing shown.



Homework

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

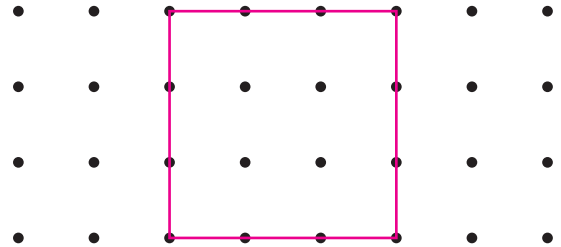
1. A rectangle 5 cm long and 3 cm wide



Perimeter = 16 cm

Area = 15 sq cm

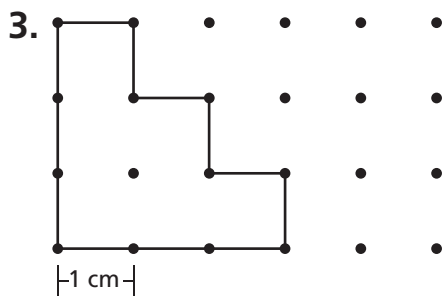
2. A rectangle 3 cm long and 3 cm wide



Perimeter = 12 cm

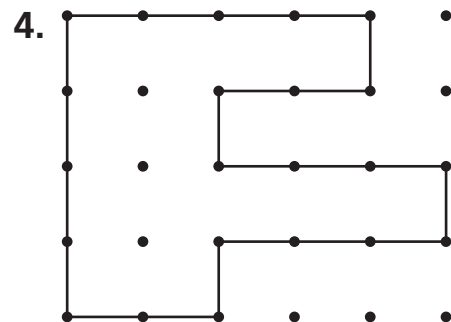
Area = 9 sq cm

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



Perimeter = 12 cm

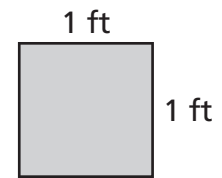
Area = 6 sq cm



Perimeter = 22 cm

Area = 13 sq cm

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?

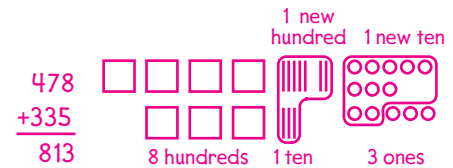


80 different colors

Remembering

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?



813 cups

Draw and label Comparison Bars to show each situation.

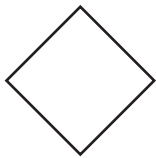
2. Marissa has 4 fewer strawberries than Amy has.



3. Carter has 6 more books than Juliana has.



Circle every name that describes the figure.



4. quadrilateral
parallelogram
rectangle
square



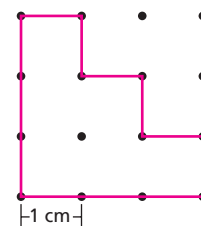
5. quadrilateral
parallelogram
rectangle
trapezoid



6. quadrilateral
parallelogram
rectangle
square

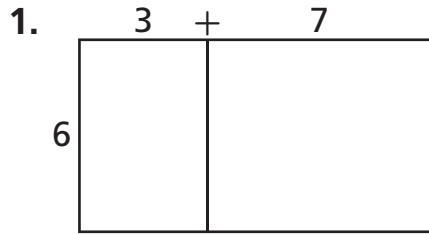
7. **Stretch Your Thinking** Draw a shape that has a perimeter of 12 cm and an area of 6 sq cm.

Check student's drawing. Possible drawing is shown.

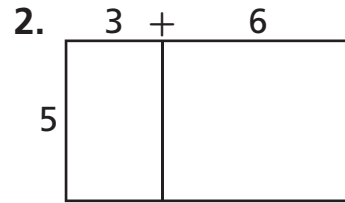


Homework

Write an equation for the area of each rectangle.

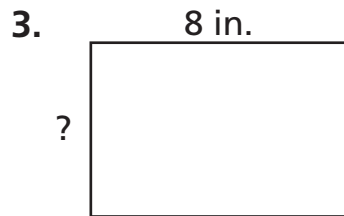


$$(6 \times 3) + (6 \times 7) = 6 \times 10$$

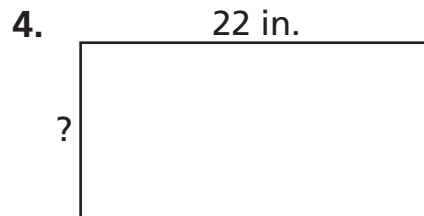


$$(5 \times 3) + (5 \times 6) = 5 \times 9$$

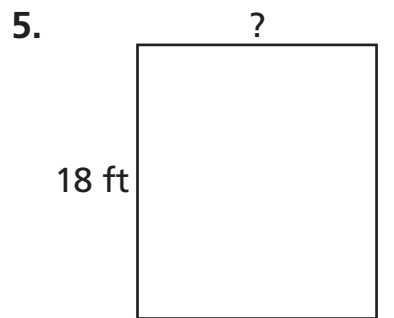
Find the unknown side length in each diagram.



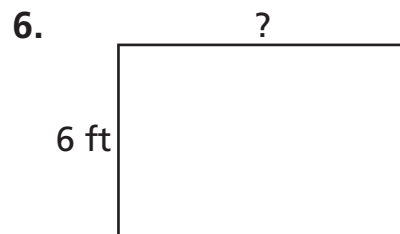
Area = 56 sq in.
7 in.



Perimeter = 66 in.
11 in.



Perimeter = 50 ft
7 ft



Area = 54 sq ft
9 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?

81 tiles

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?

36 inches

Remembering

Add or subtract.

$$\begin{array}{r} 1. \quad 465 \\ + 184 \\ \hline 649 \end{array}$$

$$\begin{array}{r} 2. \quad 579 \\ - 498 \\ \hline 81 \end{array}$$

$$\begin{array}{r} 3. \quad 600 \\ - 285 \\ \hline 315 \end{array}$$

$$\begin{array}{r} 4. \quad 539 \\ + 281 \\ \hline 820 \end{array}$$

Solve each problem. Label your answers.

Show your work.

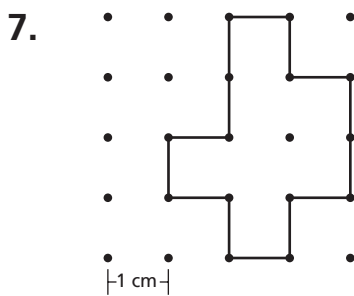
5. Kenzie bakes 9 oatmeal cookies. Kenzie bakes 7 fewer cookies than Lisa. How many oatmeal cookies does Lisa bake?

16 oatmeal cookies

6. Hayden reads 8 books over the summer. He reads 5 more books than Max. How many books does Max read?

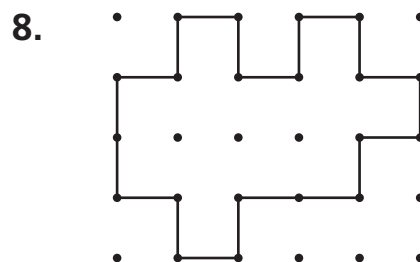
3 books

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



Perimeter = 14 cm

Area = 7 sq cm



Perimeter = 20 cm

Area = 12 sq cm

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

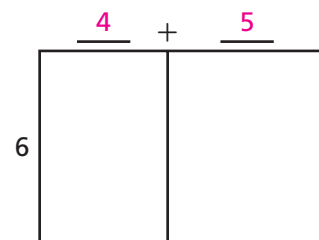
Possible answer: The area is 54 sq cm. The

length times the width equals 54. I know

$54 \div 6 = 9$, so the numbers on top must

be addends of 9. The line divides the

rectangle near the middle, so I chose 4 and 5.



Area = 54 sq cm

Homework

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.

| Rectangles with Perimeter 16 cm | |
|---------------------------------|----------|
| Lengths of Two Adjacent Sides | Area |
| 1 cm and 7 cm | 7 sq cm |
| 2 cm and 6 cm | 12 sq cm |
| 3 cm and 5 cm | 15 sq cm |
| 4 cm and 4 cm | 16 sq cm |

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.

Possible answer: The rectangle with the least area is long and skinny; the rectangle with the greatest area is a square.

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.

| Rectangles with Area 16 sq cm | |
|-------------------------------|-----------|
| Lengths of Two Adjacent Sides | Perimeter |
| 1 cm and 16 cm | 34 cm |
| 2 cm and 8 cm | 20 cm |
| 4 cm and 4 cm | 16 cm |

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

Possible answer: The rectangle with the least perimeter is a square; the rectangle with the greatest perimeter is long and skinny.

Remembering

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?

737 students; $468 + 269 = n$, $n = 737$

2. The total number of which two schools is about 900 students?

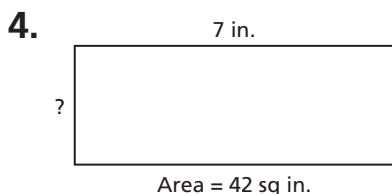
Pine Middle and Audubon High; $400 + 500 = n$, $n = 900$

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

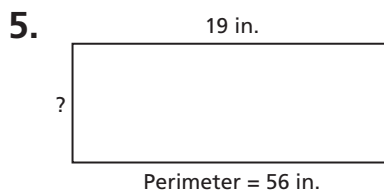
3. Brian has 8 rolls in one bag and a dozen in another bag. How many rolls does Brian have?

20 rolls

Find the unknown side length in each diagram.



6 in.



9 in.

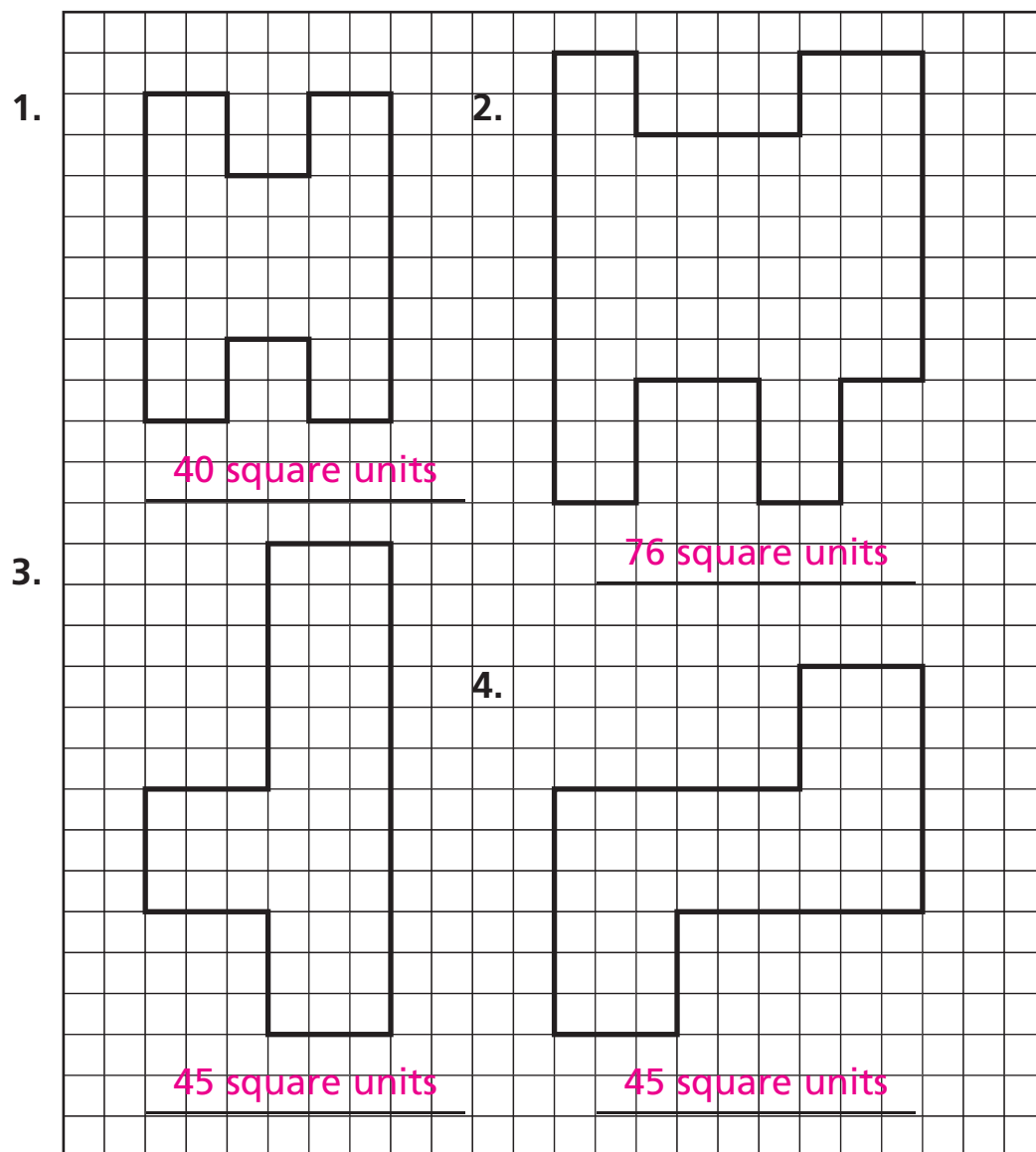
6. **Stretch Your Thinking** Give an example of a square that has the same number for its area and perimeter.

Possible answer: A square with a side length of 4 cm has a perimeter of 16 cm and an area of 16 sq cm.

Homework

Decompose each figure into rectangles.

Then find the area of the figure. *Drawings will vary.*



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

Possible answer: I decomposed Figure 4 into 5 squares, each with an area of 9 square units, because then I could just multiply 5×9 to get the total area.

Homework

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

Show your work.

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
 17 yards long

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
 Yes; 2 extra tiles

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
 58 square yards

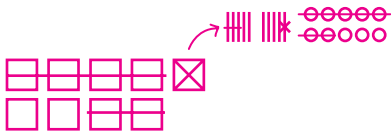
4. Tracy embroidered 26 quilt blocks with letters and 10 quilt blocks with numbers. She wants her quilt to have 6 rows. How many quilt blocks will be in each row?

Perimeter Area Side Length
 6 quilt blocks

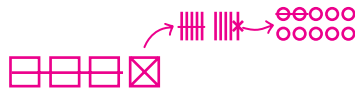
Remembering

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

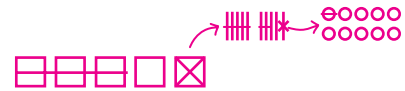
$$\begin{array}{r} 1. \quad 900 \\ - 637 \\ \hline 263 \end{array}$$



$$\begin{array}{r} 2. \quad 400 \\ - 352 \\ \hline 48 \end{array}$$



$$\begin{array}{r} 3. \quad 500 \\ - 371 \\ \hline 129 \end{array}$$



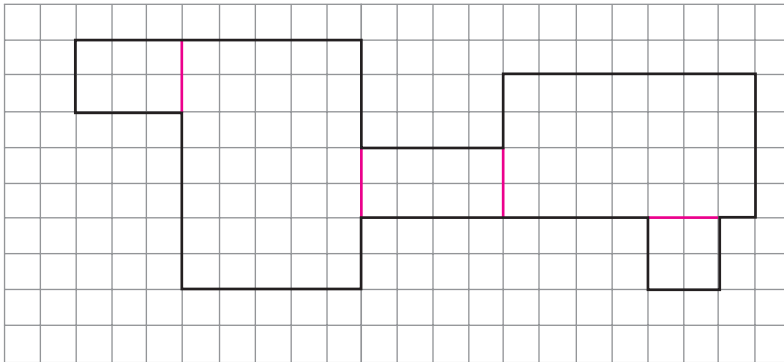
Solve the problem. Label your answers.

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

25 pages

Decompose the figure into rectangles. Then find the area of the figure. Check students' drawings. Possible drawings shown.

5.



81 square units

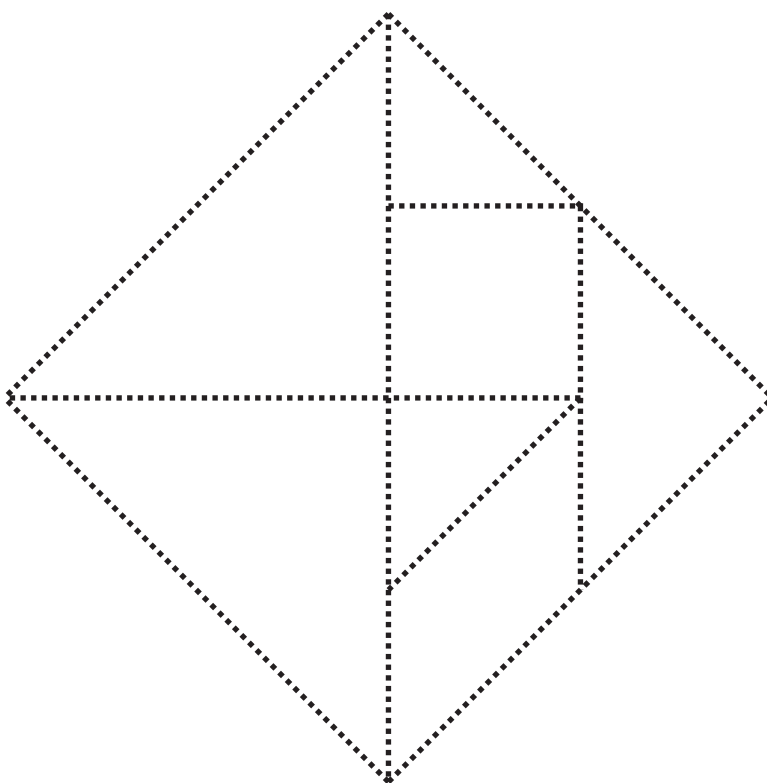
6. **Stretch Your Thinking** Abbie makes two different quilts. Each quilt is a square. However, the quilts have different perimeters and areas. Describe the areas and perimeters the two quilts could have. Possible answers shown.

Quilt 1 25 square inches area 20 inches perimeter

Quilt 2 49 square inches area 28 inches perimeter

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.



Remembering

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?

193 straws

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?

510 vehicles; $68 + 207 + 235 = n$,
 $n = 510$

3. How many more trucks and cars combined were parked on Monday than SUVs?

15 more; $49 + 129 - 163 = n$,
 $n = 15$

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

Yes; 5 extra tiles

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.

Answers will vary. Possible answer: 6 squares and 6 small triangles