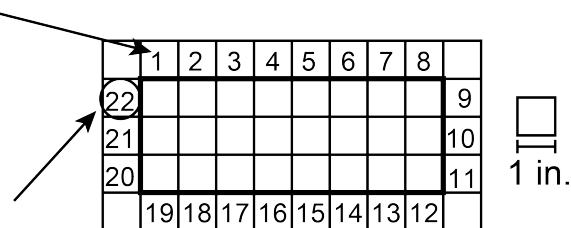Name_____

**Lesson
15.1** **Reteach**

Perimeter is the distance around a figure. You can measure perimeter using standard units, such as inches, feet, centimeters, and meters.

Example Find the perimeter of the rectangle.
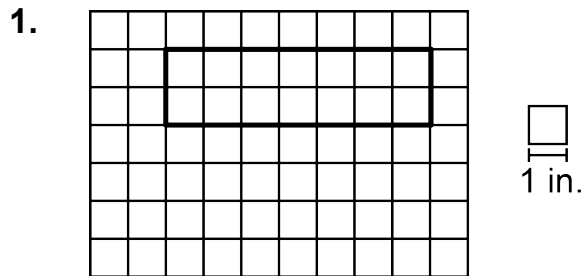
Step 1: Choose a unit to begin counting.

Step 2: Count each unit around the rectangle.

1	2	3	4	5	6	7	8
22							9
21							10
20							11
19	18	17	16	15	14	13	12

1 in.

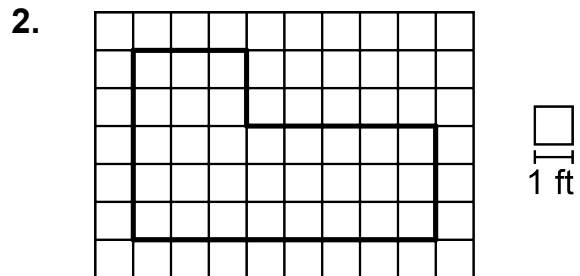Each unit is 1 inch. There are 22 units around the figure.

So, the perimeter is 22 inches.

Find the perimeter of the figure.

1.

1 in.

There are _____ units around the figure.

So, the perimeter is _____ inches.

2.

1 ft

There are _____ units around the figure.

So, the perimeter is _____ feet.

Name_____

Reteach
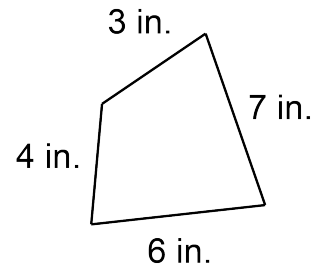
Example Find the perimeter of the quadrilateral.

Step 1: Write an equation that represents the sum of the side lengths. The letter P represents the unknown perimeter.

3 in.

7 in.

4 in.

6 in.

$3 + 7 + 6 + 4 = P$

Step 2: Add the side lengths.

$20 = P$

So, the perimeter is 20 inches.

Find the perimeter of the polygon.

1.

2 ft

6 ft   4 ft

5 ft

The perimeter is _____.

2.

4 m

4 m   4 m

4 m

The perimeter is _____.

Name_____
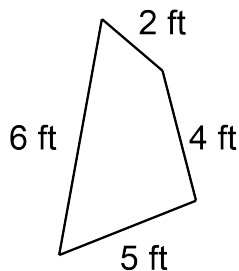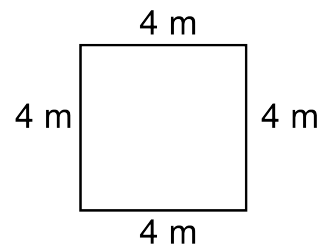
Example The perimeter of the trapezoid is 21 inches. Find the unknown side length.

Step 1: Write an equation for the perimeter.

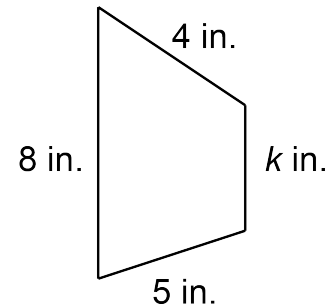$k + 5 + 8 + 4 = 21$

Step 2: Add the known side lengths.

$k + 17 = 21$

Step 3: Think: What number plus 17 equals 21?

$4 + 17 = 21$

So, $k = 4$.   The unknown side length is 4 inches.

4 in.

8 in. k in.

5 in.

Example The perimeter of the square is 16 meters. Find the length of each side of the square.

Step 1: A square has 4 equal sides. Use a multiplication equation to find each unknown side length.
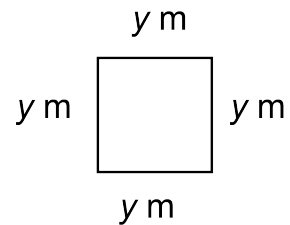
$4 \times y = 16$

Step 2: Think: 4 times what number equals 16?
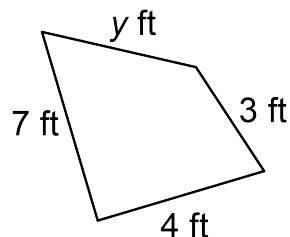
$4 \times 4 = 16$

So, $y = 4$.   So, the length of each side is 4 meters.
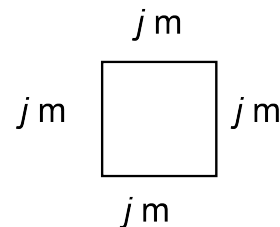
y m

y m y m

y m

Find the unknown side length.

1. Perimeter = 18 feet

y ft

7 ft   3 ft

4 ft

$y =$ _____

2. Perimeter = 8 meters

j m

j m j m
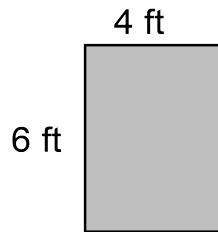
j m

$j =$ _____

Name_____

Lesson 15.4 **Reteach**

Example Find the perimeter and area of Rectangle A. Draw a different rectangle that has the same perimeter. Which rectangle has the greater area?
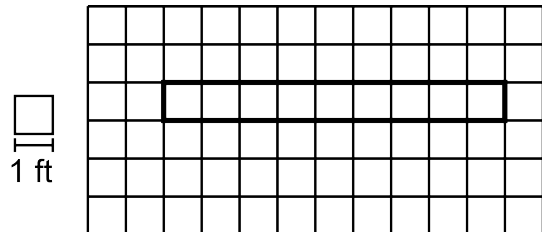
Rectangle A

4 ft

6 ft

Rectangle B

1 ft

Perimeter = 6 + 4 + 6 + 4
= 20 feet

Area = 6 × 4 = 24 square feet

Perimeter = 1 + 9 + 1 + 9
= 20 feet

Area = 1 × 9 = 9 square feet

Rectangle A has the greater area.

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1. Find the perimeter and area of Rectangle A. Draw a different rectangle that has the same perimeter. Which rectangle has the greater area?
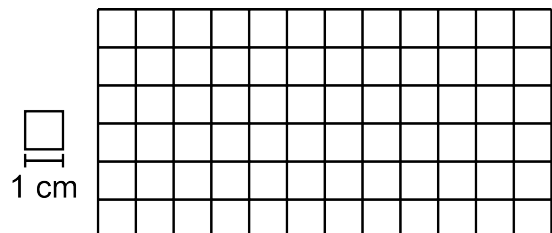
Rectangle A

8 cm

2 cm

Rectangle B

1 cm
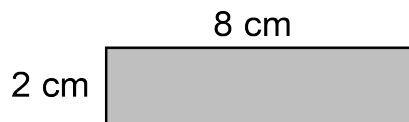
Perimeter = _____

Area = _____

Perimeter = _____

Area = _____
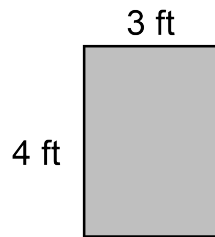
Rectangle _____ has the greater area.

Name_____

Lesson 15.5 **Reteach**

Example Find the area and the perimeter of Rectangle A. Draw a different rectangle that has the same area. Which rectangle has the lesser perimeter?

Rectangle A

3 ft

4 ft

Area = 4 × 3 = 12 square feet

Perimeter = 4 + 3 + 4 + 3
= 14 feet

Rectangle B

1 ft

Area = 2 × 6 = 12 square feet

Perimeter = 2 + 6 + 2 + 6
= 16 feet

Rectangle A has the lesser perimeter.

1. Find the area and the perimeter of Rectangle A. Draw a different rectangle that has the same area. Which rectangle has the lesser perimeter?
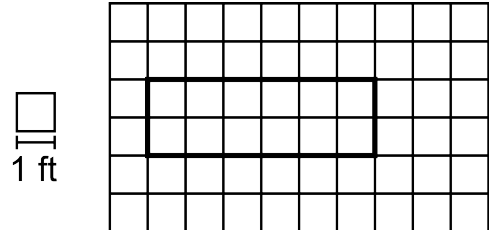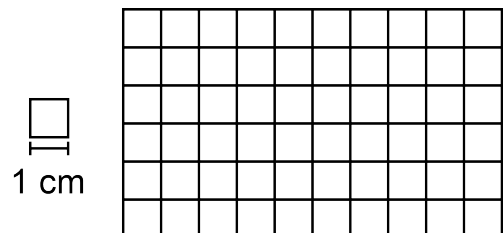
Rectangle A

4 cm

4 cm

Area = _____

Perimeter = _____

Rectangle B

1 cm

Area = _____

Perimeter = _____

Rectangle _____ has the lesser perimeter.