Lesson 7.7 Meters and Kilometers

100 centimeters (cm) = 1 meter (m)	1,000 meters (m) = 1 kilometer (km)
100 cm = 1 m	1,000 m = 1 km

Find the length of each of the following objects around your home to the nearest meter.

	Object	Length (m)
1.	width of TV screen	_____ m
2.	height of stove	_____ m
3.	height of computer	_____ m
4.	width of your bed	_____ m
5.	height of TV	_____ m
6.	your height	_____ m
7.	width of a window	_____ m

Complete the following.

	a	b
8.	600 cm = _____ m	9,000 m = _____ km
9.	7 m = _____ cm	10,000 m = _____ km
10.	7 km = _____ m	23 km = _____ m
11.	8 m = _____ cm	32 m = _____ cm
12.	2 km = _____ m	14 m = _____ cm

Lesson 7.8 Units of Length (millimeters, centimeters, meters, and kilometers)

7 cm = ___ mm	3 m = ___ mm	32 m = ___ cm	15 km = ___ m
1 cm = 10 mm	1 m = 1,000 mm	1 m = 100 cm	1 km = 1,000 m
1 1 0	1 1 0 0 0	1 1 0 0	1 1 0 0 0
×7 × 7	×3 × 3	×3 2 × 3 2	×1 5 × 1 5
7 7 0	3 3 0 0 0	3 2 3 2 0 0	1 5 1 5 0 0 0
7 cm = 70 mm	3 m = 3,000 mm	32 m = 3,200 cm	15 km = 15,000 m

Complete the following.

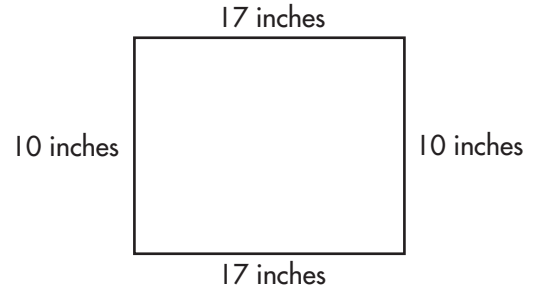|	**a**	**b**
1.	4 m = _____ cm	25 m = _____ mm
2.	21 km = _____ m	25 cm = _____ mm
3.	33 m = _____ cm	14 km = _____ m
4.	15 m = _____ cm	47 m = _____ mm
5.	5 km = _____ m	84 cm = _____ mm
6.	75 m = _____ cm	72 m = _____ cm
7.	10 km = _____ m	66 m = _____ mm
8.	21 cm = _____ mm	19 km = _____ m

Lesson 7.9 Measuring Perimeter

Perimeter is the distance around a shape.

To calculate perimeter, add together the lengths of all the sides.

Perimeter = 17 in. + 10 in. + 17 in. + 10 in.

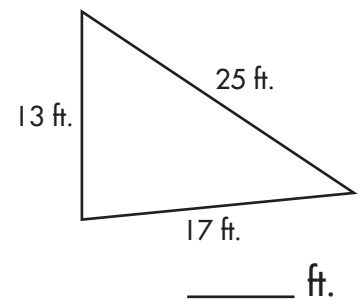Perimeter = 54 in.

17 inches

10 inches   10 inches

17 inches

Find the perimeter of each shape.

	a	b	c

1.

a.
3 m
4 m   4 m
3 m
_____ m

b.
5 ft.
10 ft.   10 ft.
5 ft.
_____ ft.

c.
13 cm   13 cm
2 cm
_____ cm

2.

75 yd.
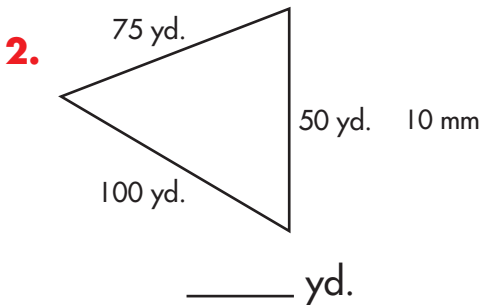50 yd.
100 yd.
_____ yd.

50 mm
10 mm   10 mm
50 mm
_____ mm

25 ft.
13 ft.
17 ft.
_____ ft.

3.

5 km
15 km
15 km
7 km
_____ km

6 in.
10 in.   10 in.
8 in.
_____ in.

30 yd.
60 yd.
20 yd.
40 yd.
_____ yd.
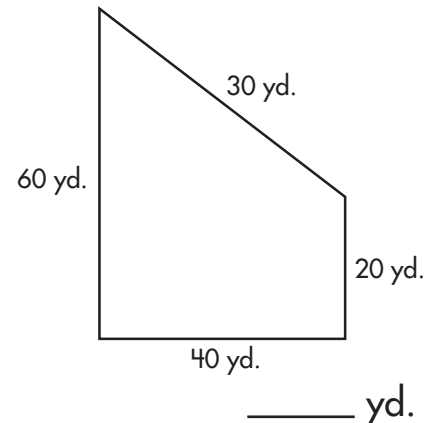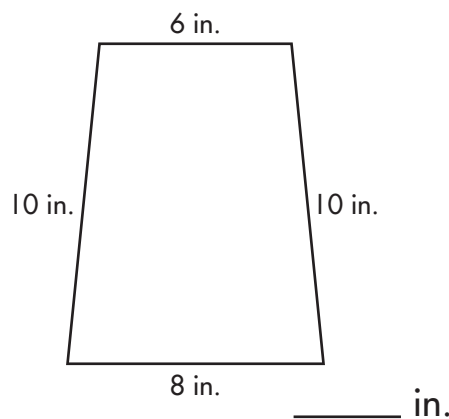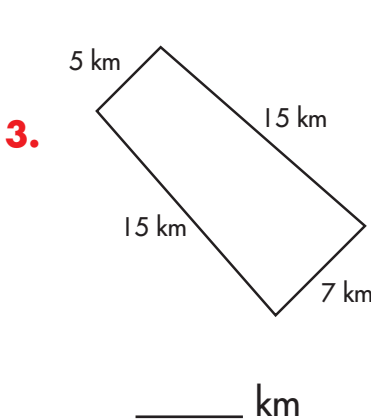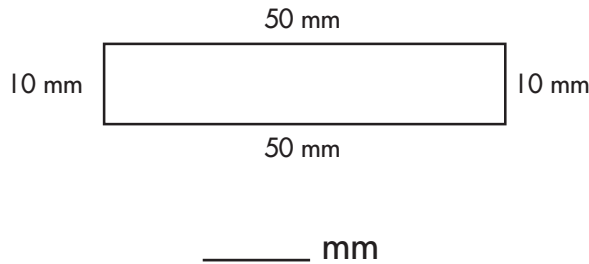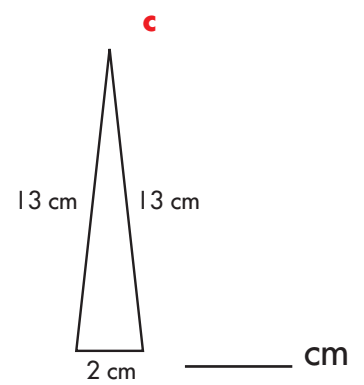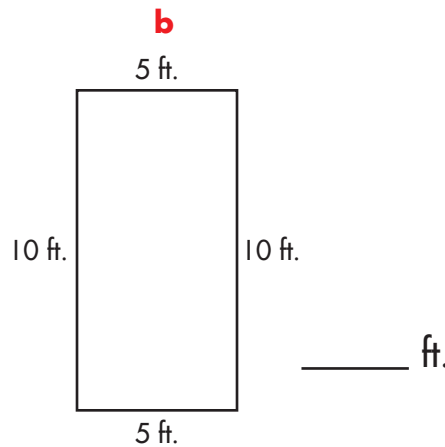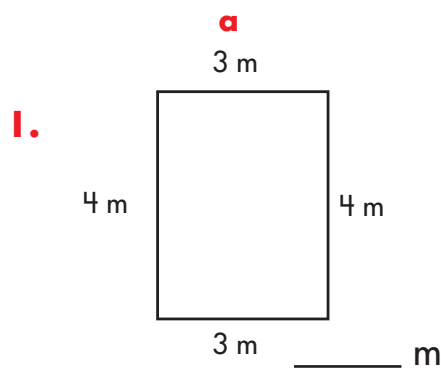
Lesson 7.10 Measuring Area

Area is the amount of space a shape covers.
To find the area of a square or rectangle,
multiply length by width.
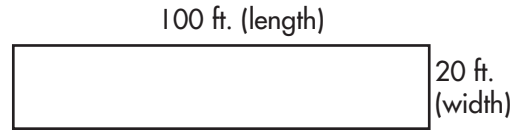
Area = 100 ft. × 20 ft. = 2,000 sq. ft.

100 ft. (length)

20 ft. (width)

Find the area of each shape.

a **b** **c**

1.

15 in.

12 in.

_____ sq. in.

12 mm

12 mm

_____ sq. mm

12 ft.

11 ft.

_____ sq. ft.

2.

10 yd.

25 yd.

_____ sq. yd.

5 in.

8 in.

_____ sq. in.

12 m

40 m

_____ sq. m

a **b**

3.

23 yd.

8 yd.

_____ sq. yd.

20 km

4 km

_____ sq. km

Lesson 7.11 Problem Solving

Solve each problem.

1. John cleared a vacant lot to plant a garden. The lot measured 35 feet by 15 feet. What is the perimeter of the garden lot?

The perimeter of the lot is _____ feet.

2. Freda is putting carpet down in a room that measures 20 feet long by 30 feet wide. What is the area of the room?

The area is _____ square feet.

3. The zoo is building a new hippo pool that will measure 55 feet by 75 feet. What is the area of the pool?

The area is _____ square feet.

4. Gabriel built a cage for his tropical birds. The cage measures 14 feet by 12 feet. What is the perimeter of the cage?

The perimeter of the cage is _____ feet.

5. The Foster's deck was almost finished. Each side of the square deck was 25 feet long. What was the area of the deck?

The area was _____ square feet.

6. The length of the walking track is 103 feet and the width is 50 feet. What is the perimeter of the track?

The perimeter is _____ feet.

7. The college donated land for a park. The land is 750 feet long and 25 feet wide. What is the area of the land?

The area is _____ square feet.

1.

2.

3.

4.

5.

6.

7.