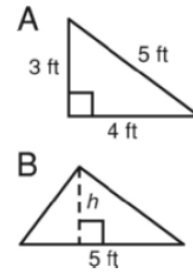


**LESSON**  
**1-5**

**Practice B**  
**Using Formulas in Geometry**

Use the figures for Exercises 1–3.

- Find the perimeter of triangle A. \_\_\_\_\_
- Find the area of triangle A. \_\_\_\_\_
- Triangle A is identical to triangle B.  
Find the height  $h$  of triangle B. \_\_\_\_\_



Find the perimeter and area of each shape.

- square with a side 2.4 m in length  
\_\_\_\_\_
- rectangle with length  $(x + 3)$  and width 7  
\_\_\_\_\_
- Although a circle does not have sides, it does have a perimeter.  
What is the term for the perimeter of a circle? \_\_\_\_\_

Find the circumference and area of each circle.

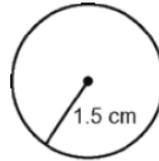
7.



Use  $\frac{22}{7}$  for  $\pi$ .

\_\_\_\_\_

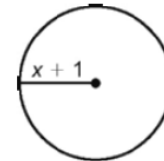
8.



Use 3.14 for  $\pi$ .

\_\_\_\_\_

9.



Leave  $\pi$  as  $\pi$ .

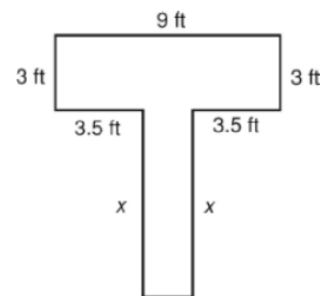
\_\_\_\_\_

- The area of a square is  $\frac{1}{4}$  in<sup>2</sup>. Find the perimeter. \_\_\_\_\_
- The area of a triangle is 152 m<sup>2</sup>, and the height is 16 m. Find the base. \_\_\_\_\_
- The circumference of a circle is  $25\pi$  mm. Find the radius. \_\_\_\_\_

Use the figure for Exercises 13 and 14.

Lucas has a 39-foot-long rope. He uses all the rope to outline this T-shape in his backyard. All the angles in the figure are right angles.

- Find  $x$ . \_\_\_\_\_
- Find the area enclosed by the rope. \_\_\_\_\_



## Practice B

1. 12 ft

2.  $6 \text{ ft}^2$

3. 2.4 ft or  $2\frac{2}{5}$  ft

4.  $P = 9.6 \text{ m}$ ;  $A = 5.76 \text{ m}^2$

5.  $P = 2x + 20$ ;  $A = 7x + 21$

6. circumference

7.  $C \approx 44 \text{ mi}$ ;  $A \approx 154 \text{ mi}^2$

8.  $C \approx 9.42 \text{ cm}$ ;  $A \approx 7.065 \text{ cm}^2$

9.  $C \approx 2\pi(x + 1)$ ;  $A \approx \pi(x^2 + 2x + 1)$

10. 2 in.

11. 19 m

12. 12.5 mm

13. 7.5 ft

14.  $42 \text{ ft}^2$