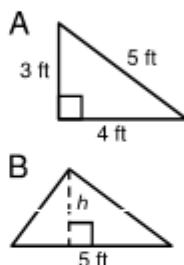


LESSON **Practice B**
1-5 *Using Formulas in Geometry*

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. _____



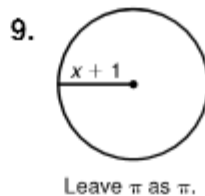
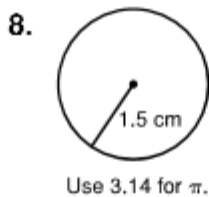
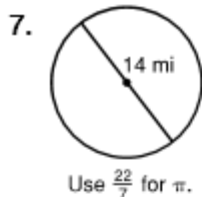
Find the perimeter and area of each shape.

- 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.

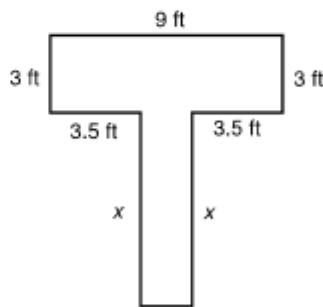


- The area of a square is $\frac{1}{4}$ in². Find the perimeter. _____
- The area of a triangle is 152 m², and the height is 16 m. Find the base. _____
- The circumference of a circle is 25π mm. Find the radius. _____

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. _____

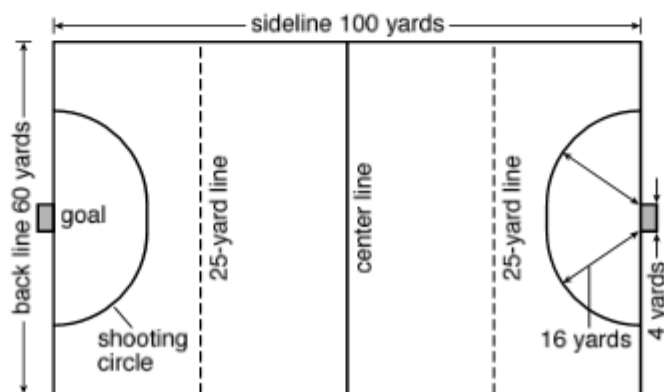


LESSON **Problem Solving**
1-5 **Using Formulas in Geometry**

Use the table for Exercises 1–6.

Figure	Perimeter or Circumference	Area
rectangle	$P = 2\ell + 2w$ or $2(\ell + w)$	$A = \ell w$
triangle	$P = a + b + c$	$A = \frac{1}{2}bh$
circle	$C = 2\pi r$	$A = \pi r^2$

Use the diagram of a hockey field for Exercises 1–4.



1. What is the perimeter of the field?

2. What is the area of the field?

3. What is the area of each of the shooting circles? Use 3.14 for π .

4. What is the area of the field between the two 25-yard lines?

Choose the best answer.

5. A rectangular counter 3 feet wide and 5 feet long has a circle cut out of it in order to have a sink installed. The circle has a diameter of 18 inches. What is the approximate area of the remaining countertop surface? Use 3.14 for π .
A 13.2 ft² **C** 18.9 ft²
B 15.0 ft² **D** 29.5 ft²
6. The base of a triangular garden measures 5.5 feet. Its height is 3 feet. If 4 pounds of mulch are needed to cover a square foot, how many pounds of mulch will be needed to cover the garden?
F 8.25 lb **H** 16.5 lb
G 33 lb **J** 66 lb