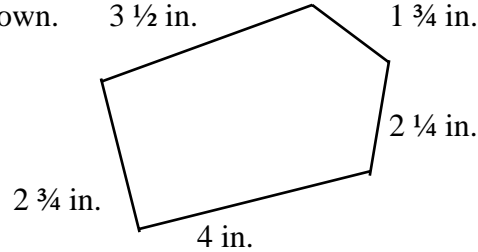


Sections 8.1-8.2 Worksheet
Geometric Applications

Name _____

1. Find the perimeter of a square whose area is $1,225 \text{ cm}^2$. _____

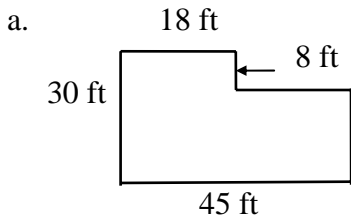
2. Find the perimeter of the figure shown. $3 \frac{1}{2} \text{ in.}$ $1 \frac{3}{4} \text{ in.}$



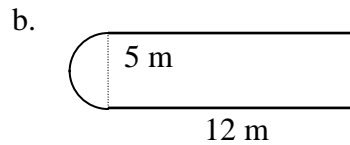
3. Find the length of molding needed to put around a circular table that has a radius of 2.75 ft. _____

4. Find the area of a triangle having sides 12 cm, 15 cm, and 19 cm. _____

5. Find the area of each composite figure given.



Area = _____



Area = _____

6. A wire from the top of a telephone pole to a point on the ground 20 feet from the pole is 40 feet long. How tall is the pole? _____

7. A square lot has one side 25 feet long. How long is a straight line from one corner to the corner diagonally opposite? _____

8. A rectangular lot 60 ft by 110 ft is fenced with redwood. At \$7.15 per foot, how much does it cost to fence the lot? _____

9. A gallon of paint will cover approximately 400 square feet of wall space. If you plan to paint all four walls in a room that measures 18 feet by 20 feet with 10 foot ceilings, how many gallons of paint will you need to buy? (There are no windows and you do not need to allow for the door.) _____

10. Find the area of the shaded part of the figure.

Area = _____

