

1) What is perimeter?

**Distance Around an Object**

Given a figure and its dimensions, calculate its area.

4) Rectangle

$$b = 12 \text{ in} \quad A = b \cdot h$$

$$h = 19 \text{ in} \quad A = (12 \text{ in})(19 \text{ in})$$

$$A = \quad \quad \quad \mathbf{A = 228 \text{ in}^2}$$

2) What is area?

**Number of Squares to Cover an Object**

5) Parallelogram

$$b = 38 \text{ m} \quad A = b \cdot h$$

$$h = 26 \text{ m} \quad A = (38 \text{ m})(26 \text{ m})$$

$$A = \quad \quad \quad \mathbf{A = 988 \text{ m}^2}$$

3) What is volume?

**Number of Cubes to Fill an Object**

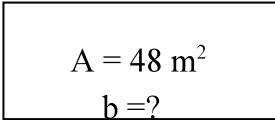
6) Triangle

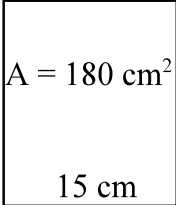
$$b = 11 \text{ cm} \quad A = (b \cdot h) \div 2$$

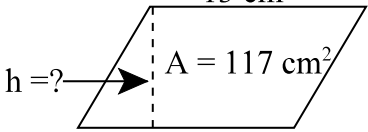
$$h = 28 \text{ cm} \quad A = \frac{(11 \text{ cm})(28 \text{ cm})}{2}$$

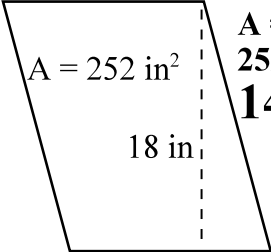
$$A = \quad \quad \quad \mathbf{A = 154 \text{ cm}^2}$$

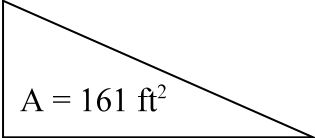
Given the area of a figure and its base or height, calculate the other dimension.

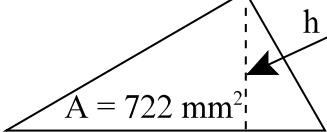
7)   $A = 48 \text{ m}^2$   
 $b = ?$   
 $A = b \cdot h$   
 $48 \text{ m}^2 = b(8 \text{ m})$   
 $\mathbf{6 \text{ m} = b}$

8)   $A = 180 \text{ cm}^2$   
 $h = ?$   
 $A = b \cdot h$   
 $180 \text{ cm}^2 = (15 \text{ cm})h$   
 $\mathbf{12 \text{ cm} = h}$

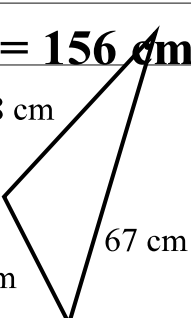
9)   $A = 117 \text{ cm}^2$   
 $h = ?$   
 $A = b \cdot h$   
 $117 \text{ cm}^2 = (13 \text{ cm})h$   
 $\mathbf{9 \text{ cm} = h}$

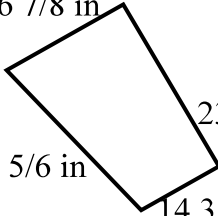
10)   $A = 252 \text{ in}^2$   
 $b = ?$   
 $A = b \cdot h$   
 $252 \text{ in}^2 = b(18 \text{ in})$   
 $\mathbf{14 \text{ in} = b}$

11)   $A = 161 \text{ ft}^2$   
 $b = ?$   
 $A = \frac{(b \cdot h)}{2}$   
 $161 \text{ ft}^2 = \frac{b(7 \text{ ft})}{2}$   
 $\mathbf{46 \text{ ft} = b}$

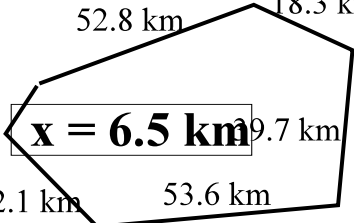
12)   $A = 722 \text{ mm}^2$   
 $h = ?$   
 $A = \frac{(b \cdot h)}{2}$   
 $722 \text{ mm}^2 = \frac{(38 \text{ mm})h}{2}$   
 $\mathbf{38 \text{ mm} = h}$

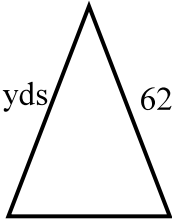
Give the perimeter of the following polygons.

13)   $\mathbf{P = 156 \text{ cm}}$

14)   $\mathbf{P = 81 \frac{11}{12} \text{ in}}$

Find the length of the missing side.

15)   $P = 193 \text{ km}$   
 $\mathbf{x = 6.5 \text{ km}}$

16)   $P = 141 \text{ yds}$   
 $\mathbf{x = 17 \text{ yds}}$

17) A roll of wallpaper covers 84 ft<sup>2</sup>. How many rolls are needed to cover a room of 756 ft<sup>2</sup>? What will the wallpaper for the job cost at \$7.00/roll?

$$\begin{array}{r} 9 \text{ rolls} \\ 84 \overline{) 756} \end{array} \quad 9 \text{ rolls } (\$7.00) = \$63.00$$

18) A bag of grass seed covers 1,500 ft<sup>2</sup>. How many bags will be needed to cover a yard of 19,500 ft<sup>2</sup>? What will the seed cost at \$2.50/bag?

$$\begin{array}{r} 13 \text{ bags} \\ 1,500 \overline{) 19,500} \end{array} \quad 13 \text{ bags } (\$2.50) = \$32.50$$