

1) What is perimeter?

2) What is area?

3) What is volume?

Distance Around an Object

Number of Squares to Cover an Object

Number of Cubes to Fill An Object

Given a figure and its dimensions, calculate its area.

4) Rectangle

$$b = 6 \text{ in} \quad A = b \cdot h$$

$$h = 15 \text{ in} \quad A = (6 \text{ in})(15 \text{ in})$$

$$A = \quad A = 90 \text{ in}^2$$

5) Rectangle

$$b = 25 \text{ mi} \quad A = b \cdot h$$

$$h = 43 \text{ mi} \quad A = (25 \text{ mi})(43 \text{ mi})$$

$$A = \quad A = 1,075 \text{ mi}^2$$

6) Parallelogram

$$b = 52 \text{ m} \quad A = b \cdot h$$

$$h = 22 \text{ m} \quad A = (52 \text{ m})(22 \text{ m})$$

$$A = \quad A = 1,144 \text{ m}^2$$

7) Parallelogram

$$b = 91 \text{ km} \quad A = b \cdot h$$

$$h = 18 \text{ km} \quad A = (91 \text{ km})(18 \text{ km})$$

$$A = \quad A = 1,638 \text{ km}^2$$

8) Triangle

$$b = 47 \text{ yds} \quad A = (b \cdot h) \div 2$$

$$h = 16 \text{ yds} \quad A = (47 \text{ yd})(16 \text{ yd}) \div 2$$

$$A = \quad A = 376 \text{ yd}^2$$

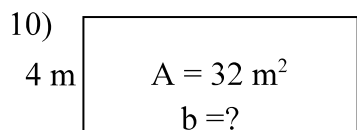
9) Triangle

$$b = 66 \text{ cm} \quad A = (b \cdot h) \div 2$$

$$h = 148 \text{ cm} \quad A = (66 \text{ cm})(148 \text{ cm}) \div 2$$

$$A = \quad A = 4,884 \text{ cm}^2$$

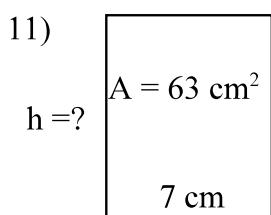
Given the area of a figure and its base or height, calculate the other dimension.



$$A = b \cdot h$$

$$32 \text{ m}^2 = b(4\text{m})$$

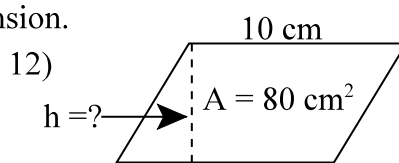
$$8\text{m} = b$$



$$A = b \cdot h$$

$$63 \text{ cm}^2 = (7 \text{ cm})h$$

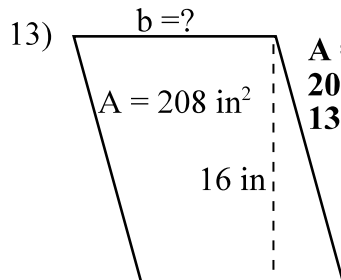
$$9 \text{ cm} = h$$



$$A = b \cdot h$$

$$80 \text{ cm}^2 = (10 \text{ cm})h$$

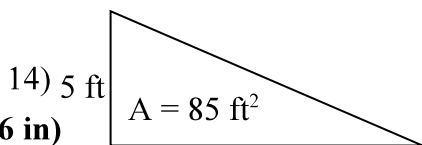
$$8 \text{ cm} = h$$



$$A = b \cdot h$$

$$208 \text{ in}^2 = b(16 \text{ in})$$

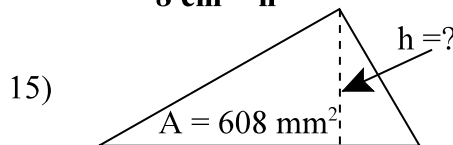
$$13 \text{ in} = b$$



$$A = \frac{(b \cdot h)}{2}$$

$$85 \text{ ft}^2 = \frac{b(5 \text{ ft})}{2}$$

$$34 \text{ ft} = b$$



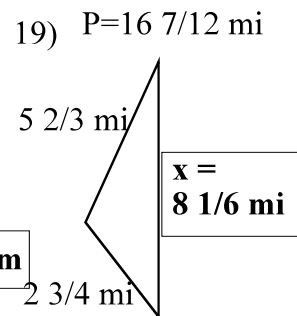
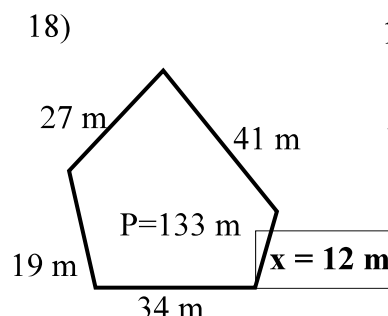
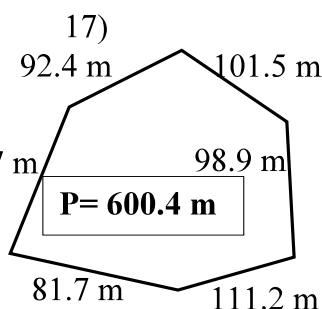
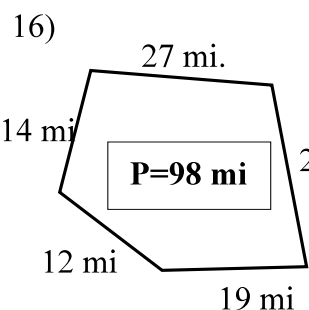
$$A = \frac{(b \cdot h)}{2}$$

$$608 \text{ mm}^2 = \frac{(32 \text{ mm})h}{2}$$

$$38 \text{ mm} = h$$

Give the perimeter of the following polygons.

Find the length of the missing side.



20) A sheet of shingles covers 12 ft^2 . How many sheets are needed to cover a roof of 744 ft^2 ? What will the shingles for the job cost be at $\$2.00/\text{sheet}$?

$$12 \text{ ft}^2 \overline{) 744 \text{ ft}^2} \quad 62 \text{ sheets}(\$2.00) = \$124.00$$

21) A can full of paint covers 300 ft^2 . How many cans will be needed to cover a surface of $1,800 \text{ ft}^2$? What will the paint cost at $\$12.00/\text{can}$?

$$300 \overline{) 1,800} \quad 6 \text{ cans} \quad 6 \text{ cans}(\$12.00) = \$72.00$$