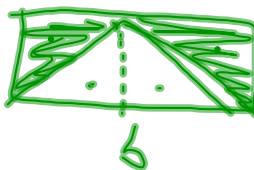


## 5-1 Perimeter and Area

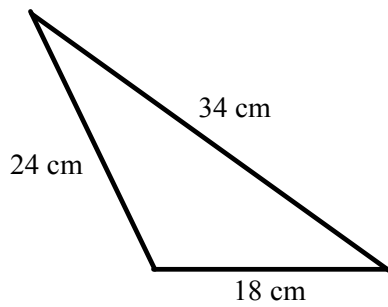
Perimeter: *outside distance* in

Area: *inside amount* in<sup>2</sup>

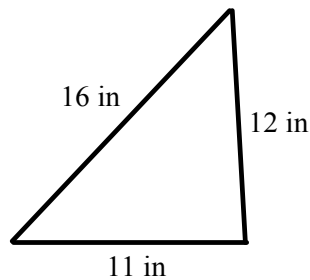
Area of a rectangle:  $b \cdot h$   $L \cdot w$  

Area of a triangle:  $\frac{b \cdot h}{2}$   $\frac{1}{2} b \cdot h$

Ex. 1 Find the perimeter of the triangle.

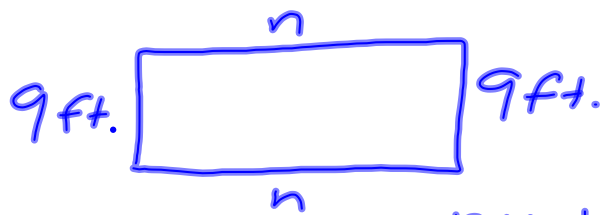


$$24 + 34 + 18 = 76 \text{ cm}$$



$$39 \text{ in}$$

Ex 2 The perimeter of a rectangle is 60 feet. Its width is 9 feet. Find its length.



$$60 - 18 = \frac{42}{2}$$

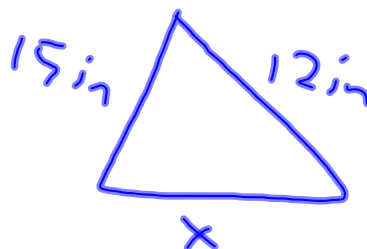
$$n = 21 \text{ ft.}$$

$$n + n + 9 + 9 = 60$$

$$2n + 18 = 60$$

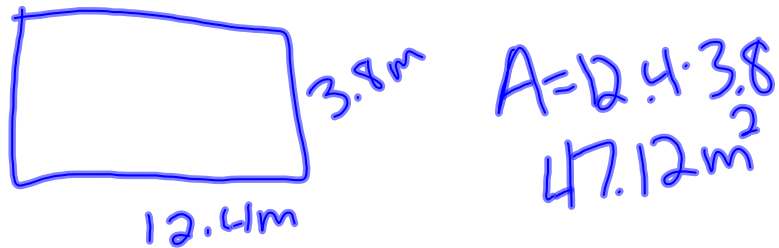
The perimeter of a triangle is 41 inches. Two of the sides are 15 inches and 12 inches. Find the length of the third side.

$$41 - 27 = 14 \text{ in}$$



$$x + 12 + 13 = 41$$

Ex 3 The length of a rectangle is 12.4 meters and the width is 3.8 meters. Find the area of the rectangle.

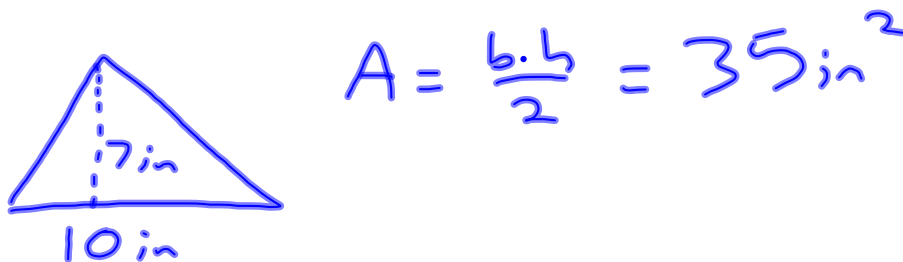


The area of a rectangle is  $68 \text{ in}^2$ . If the length is 17 inches, find the width.

$$68 = 17w \quad A = lw$$

$$\frac{68}{17} = \frac{17w}{17} \quad w = 4 \text{ in}$$

Ex. 4 The base of a triangle is 10 inches and the height is 7 inches. Find the area.



The area of a triangle is  $72 \text{ cm}^2$ . If the base is 24 cm, find the height.

$$A = \frac{b \cdot h}{2} \rightarrow 72 = \frac{24 \cdot h}{2}$$

$$6 \text{ cm} = h$$

Ex. 5 Mr. Ebert has a bag of grass seed that will seed 750 square feet. If the area I want to seed is 30 feet long, how wide can the area be?



$$30w = 750$$
$$w = 25 \text{ ft.}$$

Homework

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