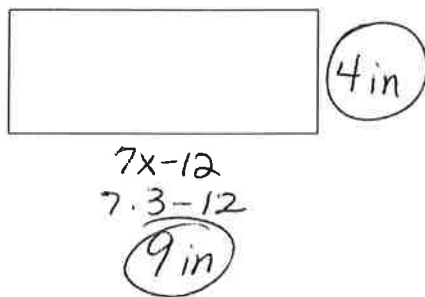


$$\begin{aligned}
 11) \quad -3.7n - 4.2 &= -14.93 \\
 + 4.2 & \quad + 4.2 \\
 \hline
 -3.7n &= -10.73 \\
 -3.7 & \quad -3.7 \\
 \hline
 n &= 2.9
 \end{aligned}$$

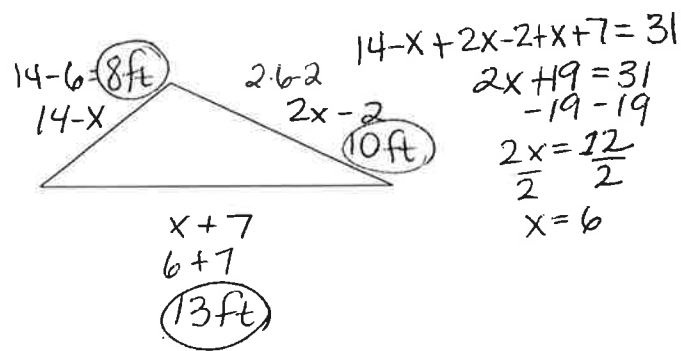
Examples: Find the dimensions of the figure:

12) Area = 36 inches²

$$\begin{aligned}
 A &= L \cdot W \\
 36 &= (7x-12) \cdot 4 \\
 36 &= 28x - 48 \\
 +48 & \quad +48 \\
 \hline
 84 &= 28x \\
 28 & \quad 28 \\
 \hline
 3 &= x
 \end{aligned}$$



13) Perimeter = 31 feet *side + side + side = Peri*



Formula to change degrees Celsius to degrees Fahrenheit:

$$F = \frac{9}{5}(\text{Celsius}) + 32$$

Examples: Convert the following temperatures:

14) 18°C $F = \frac{9}{5}(18) + 32$
 $F = 64.4^\circ \text{F}$

15) 98.6°F $98.6 = \frac{9}{5}x + 32$
 $-32 \quad -32$
 $66.6 = \frac{9}{5}x$
 $\div \frac{9}{5} \quad \div \frac{9}{5}$
 $37^\circ \text{C} = x$

Examples: Write a linear equation to represent the problem; then solve the equation.

16) An electrician's bill was \$263. The cost for supplies was \$128 and the cost for labor was \$45 per hour. How many hours did he work?

Egn: $263 = 128 + 45x$
 $-128 \quad -128$
 $135 = 45x$
 $\frac{135}{45} = \frac{45x}{45}$ $x = 3 \text{ hours}$

17) A car salesman's base salary is \$21,000 per year. She also earns a 5% commission on sales. What is the total value of the cars she must sell to earn \$65,000?

Egn: $65000 = 21000 + .05x$
 $-21000 \quad -21000$
 $44000 = .05x$
 $\frac{44000}{.05} = \frac{.05x}{.05}$ $\$880,000$