

## 2-1 &amp; 2-2 Solve One-Step and Two-Step Equations

Solve:

$$1. \frac{3}{4}x = \frac{5}{3}$$

$$\boxed{x = \frac{20}{3}}$$

$$2. \begin{array}{r} 6 - 4x = 34 \\ -6 \quad -6 \\ \hline -4x = 28 \\ \frac{-4x}{-4} = \frac{28}{-4} \\ \hline \boxed{x = -7} \end{array}$$

$$3. \frac{3}{5}x + 6 = -12$$

$$\frac{3}{5}x = -18$$

$$x = -30$$

$$\boxed{x = -30}$$

$$4. \frac{x-3}{7} = 5 \cdot 7$$

$$x-3 = 35$$

$$x = 38$$

$$\boxed{x = 38}$$

Identify a variable and write an equation to represent this situation. Then solve it.

5. Two brothers both play on the varsity basketball team. The older one scored 18 points, which was 12 points less than twice what the younger brother scored. How many points did the younger brother score?

let  $x$  = points the younger brother scored

$$\begin{array}{r} 18 = 2x - 12 \\ +12 \quad +12 \\ \hline 30 = 2x \\ \frac{30}{2} = \frac{2x}{2} \\ 15 = x \end{array}$$

$\boxed{\text{The younger brother scored 15 points.}}$