

Two-step Equations

* move the number that is not attached to the variable first.

$$\begin{array}{r} \text{Ex. } 0.75x - 148 = 452 \\ + 148 \quad + 148 \\ \hline \end{array}$$

$$\begin{array}{r} \text{800} \quad 600 \\ \hline .75x = 600 \\ \cdot 75 \quad \cdot 75 \end{array}$$

$$\boxed{x = 800}$$

check.

$$.75(800) - 148 = 452$$

$$600 - 148 = 452$$

$$452 = 452 \checkmark$$

$$\begin{array}{r} \text{Ex. } \frac{x}{7} + 2 = -6 \\ \quad \quad -2 \quad -2 \\ \hline \end{array}$$

$$-6 + 2 = -8$$

$$\frac{x}{7} = -8 \cdot 7$$

$$\boxed{x = -56}$$

check: $-\frac{56}{7} + 2 = -6$

$$-8 + 2 = -6$$

$$-6 = -6 \checkmark$$

Pg. 122 (3-45)