

Solving two-step equations

$$\begin{array}{r} \text{Ex 1: } 3m + -5 = 13 \\ +5 \quad +5 \\ \hline 3m = 18 \\ \underline{3} \quad \underline{3} \end{array}$$

$$\boxed{m = 6}$$

check:

$$\begin{array}{r} 3m + -5 = 13 \\ 3(6) + -5 = 13 \\ 18 + -5 = 13 \\ 13 = 13 \end{array}$$

$$\begin{array}{r} \text{Ex 2: } -4m + 25 = -45 \\ -25 \quad -25 \\ \hline \end{array}$$

$$\begin{array}{r} -4m = -70 \\ \underline{-4} \quad \underline{-4} \end{array}$$

$$\boxed{m = 17.5}$$

$$\begin{array}{r} 17.5 \\ \sqrt{70.0} \\ \underline{-40} \\ 30 \\ \underline{-28} \\ 20 \end{array}$$

$$\begin{array}{r} \text{Ex 3: } \frac{1}{2}c + 8 = -30 \\ -8 \quad -8 \\ \hline \end{array}$$

$$\frac{2}{1} \cdot \frac{1}{2}c = -38 \cdot 2$$

$$\boxed{c = -76}$$

$$\text{Ex 4} \quad \frac{m}{5} + (-10) = 12$$
$$\frac{m}{5} + 10 \quad +10$$

$$\frac{5}{1} \cdot \frac{m}{5} = \frac{22 \cdot 5}{1}$$

$$m = 110$$

$$\text{Ex 5:} \quad \frac{2m}{3} + 15 = 65$$

$$\swarrow$$
$$\frac{2m}{3} + 15 = 65$$
$$\quad \quad -15 \quad -15$$

$$\frac{3}{2} \cdot \frac{2m}{3} = \frac{50 \cdot 3}{2}$$

$$m = 75$$