Solving two-step equations

Ex 1: $3m + -5 = 13$

$+5 \quad +5$

$\frac{3m}{3} = \frac{18}{3}$

$m = 6$

Check:

$3m + -5 = 13$

$3(6) + -5 = 13$

$18 + -5 = 13$

$13 = 13$

Ex 2: $-4m + 25 = -45$

$-25 \quad -25$

$\frac{-4m}{-4} = \frac{-70}{-4}$

$m = 17.5$

$$\begin{array}{r} 17.5 \\ 4\overline{)70.0} \\ -4\downarrow \\ \hline 30 \\ -28\downarrow \\ \hline 20 \end{array}$$

Ex 3: $\frac{1}{2}c + 8 = -30$

$-8 \quad -8$

$\frac{2}{1} \cdot \frac{1}{2}c = -38.2$

$c = -76$

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

$+10 \quad +10$

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

$\boxed{m = 110}$

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

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

$-15 \quad -15$

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

$\boxed{m = 75}$