

Homework: Solving 1-Step Equations (with a balance)

Example 1:

$$\begin{array}{r} x - 5 = 9 \\ + 5 \quad | \quad + 5 \\ \hline x = 14 \end{array}$$

Example:

$$\begin{array}{r} \frac{3x}{3} = \frac{12}{3} \\ \hline x = 4 \end{array}$$

Example:

$$\begin{array}{r} \frac{x}{2} = -3 \\ \cdot 2 \quad | \quad \cdot 2 \\ \hline x = -6 \end{array}$$

Example:

$$\begin{array}{r} \frac{1}{6}x = -1 \\ \cdot 6 \quad | \quad \cdot 6 \\ \hline x = -6 \end{array}$$

Use the balance (scale) method to solve all 1-step equations.

1.) $w - 17 = 28$

2.) $\frac{x}{12} = 13$

3.) $-5d = 155$

4.) $-18 + y = 93$

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

6.) $\frac{3}{4}x = 9$

7.) $x + 5 = 20$

8.) $-x = 5$

9.) $\frac{x}{6} = 2$

10.) $-8x = 64$

11.) $-\frac{1}{2}x = 5$

12.) $x - 10 = 15$