

## Day 1 – Solving One &amp; Two Step Equations - Practice

Directions: Solve each equation, showing all work.

1.  $m - 9 = -13$

$$\begin{array}{r} +9 \quad +9 \\ \hline m = -4 \end{array}$$

2.  $\frac{b}{3} = -6 \cdot 3$

$$\boxed{b = -18}$$

3.  $-15x = 0$

$$\begin{array}{r} -15 \quad 15 \\ \hline x = 0 \end{array}$$

4.  $4x + 7 = 31$

$$\begin{array}{r} -7 \quad -7 \\ \hline 4x = 24 \\ \frac{4x}{4} = \frac{24}{4} \\ \hline x = 6 \end{array}$$

5.  $\frac{n}{5} - 4 = -2$

$$\begin{array}{r} +4 \quad +4 \\ \hline 5 \cdot \frac{n}{5} = 2 \cdot 5 \\ \hline n = 10 \end{array}$$

6.  $\frac{y+4}{7} = -3 \cdot 7$

$$\begin{array}{r} y+4 = -21 \\ -4 \quad -4 \\ \hline y = -25 \end{array}$$

7.  $7x + 18 = -24$

$$\begin{array}{r} -18 \quad -18 \\ \hline 7x = -42 \\ \frac{7x}{7} = \frac{-42}{7} \\ \hline x = -6 \end{array}$$

8.  $5 - 2x = 15$

$$\begin{array}{r} -5 \quad -5 \\ \hline -2x = 10 \\ \frac{-2x}{-2} = \frac{10}{-2} \\ \hline x = -5 \end{array}$$

9. Rewrite  $\frac{-7x - (-3)}{3} = 15$

$$3 \cdot \frac{-7x + 3}{3} = 15 \cdot 3$$

$$\begin{array}{r} -7x + 3 = 45 \\ -3 \quad -3 \\ \hline -7x = 42 \end{array}$$

$$\begin{array}{r} -7x = 42 \\ -7 \quad -7 \\ \hline x = -6 \end{array}$$

10. Describe and correct the error:

$$\begin{array}{l} \times \quad -3x + 2 = -7 \\ \quad -3x = -9 \\ \quad \frac{-3x}{-3} = \frac{-9}{3} \\ \quad x = -3 \end{array}$$

They did not divide by a -3.

$$\begin{array}{r} -3x = -9 \\ \frac{-3x}{-3} = \frac{-9}{-3} \\ \hline x = 3 \end{array}$$