

Name: _____

Per A B C D E F Date _____

*Key***M3-T1-L1 HW: Two-Step Equations**

1-12: Solve each equation. SHOW ALL YOUR WORK.

$$1. \quad x + 2 = -7$$

$$\begin{array}{r} -2 \quad -2 \\ \hline \end{array}$$

$$x = -9$$

$$2. \quad 2x - 5 = -11$$

$$\begin{array}{r} +5 \quad +5 \\ \hline \end{array}$$

$$\frac{2x}{2} = \frac{-6}{2}$$

$$x = -3$$

$$3. \quad -3x - 3 = 30$$

$$\begin{array}{r} +3 \quad +3 \\ \hline \end{array}$$

$$\frac{-3x}{-3} = \frac{33}{-3}$$

$$x = -11$$

$$4. \quad \frac{x}{2} = -6 \quad (-2)$$

$$x = 12$$

$$5. \quad -5x - 3 = -13$$

$$\begin{array}{r} +3 \quad +3 \\ \hline \end{array}$$

$$\frac{-5x}{-5} = \frac{-10}{-5}$$

$$x = 2$$

$$6. \quad 3x + 6 = -18$$

$$\begin{array}{r} -6 \quad -6 \\ \hline \end{array}$$

$$\frac{3x}{3} = \frac{-24}{3}$$

$$x = -8$$

$$7. \quad 12 = -2x + 10$$

$$\begin{array}{r} -10 \quad -10 \\ \hline \end{array}$$

$$\frac{2}{-2} = \frac{-2x}{-2}$$

$$-1 = x$$

$$8. \quad 14 = 3 - x$$

$$\begin{array}{r} -3 \quad -3 \\ \hline \end{array}$$

$$\frac{11}{-1} = \frac{-x}{-1}$$

$$-11 = x$$

$$9. \quad 13 = -4x + 9$$

$$\begin{array}{r} -9 \quad -9 \\ \hline \end{array}$$

$$\frac{4}{-4} = \frac{-4x}{-4}$$

$$-1 = x$$

$$10. \quad 11 = \frac{x}{-5} + 8$$

$$\begin{array}{r} -8 \quad +8 \\ \hline \end{array}$$

$$(-5)3 = \frac{x}{-5} \quad (-5)$$

$$-15 = x$$

$$11. \quad 9 = \frac{x}{2} - 7$$

$$\begin{array}{r} +7 \quad +7 \\ \hline \end{array}$$

$$(9)16 = \frac{x}{9} \quad (9)$$

$$144 = x$$

$$12. \quad -\frac{x}{3} + 1 = -7$$

$$\begin{array}{r} +1 \quad -1 \\ \hline \end{array}$$

$$(3) -\frac{x}{3} = -8 \quad (3)$$

$$\frac{-x}{-1} = \frac{-24}{-1}$$

$$x = 24$$