

Two-Step Equations Notes (ODDS) Practice (EVENS)

Period _____

Solve each equation.

$$1) -7 = \frac{x}{10} - 8$$

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

$$10 \cdot 1 = \frac{x}{10} \cdot 10$$

$$\boxed{10 = x}$$

$$3) 11 = 7 + \frac{m}{5}$$

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

$$5 \cdot 4 = \frac{m}{5} \cdot 5$$

$$\boxed{20 = m}$$

$$5) 7(-6 + x) = 7$$

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

$$\frac{7x}{7} = \frac{49}{7}$$

$$\boxed{x = 7}$$

$$7) 7n - 5 = 9$$

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

$$\frac{7n}{7} = \frac{14}{7}$$

$$\boxed{n = 2}$$

$$9) 170 = 10(b + 8)$$

$$\begin{array}{r} 170 = 10b + 80 \\ -80 \quad -80 \end{array}$$

$$\frac{90}{10} = \frac{10b}{10}$$

$$\boxed{b = 9}$$

$$\frac{10}{1} \cdot \frac{x+7}{10} = -1 \cdot \frac{10}{1}$$

$$\begin{array}{r} x+7 = -10 \\ -7 \quad -7 \end{array}$$

$$\boxed{x = -17}$$

$$2) -8 - 4n = 56$$

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

$$\begin{array}{r} -4n = 64 \\ -4 \quad -4 \end{array}$$

$$\boxed{n = -16}$$

$$18 \cdot 4) \frac{n-2}{18} = -1 \cdot 18$$

$$\begin{array}{r} n-2 = -18 \\ +2 \quad +2 \end{array}$$

$$\boxed{n = -16}$$

$$6) \frac{p}{4} - 9 = -13$$

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

$$4 \cdot \frac{p}{4} = -4 \cdot 4$$

$$\boxed{p = -16}$$

$$8) 9(-5 + p) = -126$$

$$\begin{array}{r} -45 + 9p = -126 \\ +45 \quad +45 \end{array}$$

$$\frac{9p}{9} = \frac{-81}{9}$$

$$\boxed{p = -9}$$

$$10) -5 = -2 + \frac{x}{6}$$

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

$$6 \cdot -3 = \frac{x}{6} \cdot 6$$

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

$$12) 21 = -2a - 5$$

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

$$\begin{array}{r} 26 = -2a \\ -2 \quad -2 \end{array}$$

$$\boxed{-13 = a}$$