

Name Key Hour _____ Date _____

Equations Review

Directions: Solve the equation.

$$1) \begin{array}{r} x + 16 = 10 \\ -16 = -16 \\ \hline x = -6 \end{array}$$

$$2) \begin{array}{r} -10e = 40 \\ -10 = -10 \\ \hline e = -4 \end{array}$$

$$3) \begin{array}{r} \frac{w}{5} = -3(5) \\ \hline w = -15 \end{array}$$

$$4) \begin{array}{r} 7x - 10 = 25 \\ +10 = +10 \\ \hline 7x = 35 \\ \frac{7x}{7} = \frac{35}{7} \quad x = 5 \end{array}$$

$$5) \begin{array}{r} \frac{n}{-3} - 2 = -35 \\ +2 = +2 \\ \hline \frac{n}{-3} = -33(-3) \\ (-3) \frac{n}{-3} = -33(-3) \quad n = 99 \end{array}$$

Write as $\frac{x}{5}$ ←

$$6) \begin{array}{r} \frac{1}{5}x + 7 = 32 \\ -7 = -7 \\ \hline \frac{x}{5} = 25(5) \\ x = 5 \end{array}$$

$$7) \begin{array}{r} 3.2y - 11.5 = 4.66 \\ +11.5 = 11.50 \\ \hline 3.2y = 16.16 \\ \frac{3.2y}{3.2} = \frac{16.16}{3.2} \quad y = 5.05 \end{array}$$

Write as $\frac{a}{-2}$ ←

$$8) \begin{array}{r} \frac{1}{-2}a - \frac{2}{3} = \frac{5}{6} \\ +\frac{2}{3} = +\frac{2}{3} \\ \hline \frac{a}{-2} = \frac{9}{6}(-2) \\ (-2) \frac{a}{-2} = \frac{9}{6}(-2) \\ a = \frac{-18}{6} = a = -3 \end{array}$$

$$\left. \begin{array}{l} \frac{5}{6} + \frac{2 \times 2}{3 \times 2} \\ \frac{5}{6} + \frac{4}{6} = \frac{9}{6} \end{array} \right\}$$