

8th Grade

Solving 2-step Equations with Fractions and Decimals

$$\begin{array}{r} 0.3 = 0.5f - 0.7 \\ + .7 \quad + .7 \\ \hline 1.0 \end{array}$$

$$\frac{1}{.5} = \frac{.5f}{.5}$$

$$\boxed{2 = f}$$

$$\begin{array}{r} 2. \\ 5 \overline{) 10} \\ \underline{10} \\ 0 \end{array}$$

$$\frac{1}{2} + \frac{3}{2} = 5d - \frac{1}{2}$$

$$+ \frac{1}{2}$$

$$\frac{4}{2}$$

$$\frac{2}{5} = \frac{5d}{5}$$

$$\boxed{\frac{2}{5} = d}$$

$$\frac{2}{7} + \frac{3}{7} = \frac{h}{14} - \frac{2}{7}$$

$$\frac{2}{1} \cdot \frac{5}{7} = \frac{h}{14} \cdot \frac{14}{7}$$

$$\boxed{10 = h}$$

$$\begin{array}{r} \div 14 \\ -\frac{2}{7} \mid +\frac{2}{7} \end{array}$$

$$\begin{array}{r} -0.4 = \frac{g}{3} - 0.9 \\ +.9 \quad +.9 \end{array}$$

$$3 \cdot .5 = \frac{g}{3}$$

$$\boxed{1.5 = g}$$

$$\begin{array}{r} .9 \\ - .4 \\ \hline .5 \end{array}$$

$$\begin{array}{r} 3 \\ \cdot 5 \\ \hline 15 \end{array}$$

You Try: $\frac{2}{3} + \frac{4}{3} = -6e - \frac{5}{3}$

$$\frac{9}{3} + \frac{5}{3}$$

$$\frac{3}{-6} = \frac{-6e}{-6}$$

$$\boxed{-\frac{1}{2} = e}$$

$$2\frac{1}{3} = \frac{7}{3} \quad -3b + 2.5 = 4$$

$$\begin{array}{r} -2.5 \\ -2.5 \\ \hline 3 \end{array}$$

$$\frac{-3b}{-3} = \frac{1.5}{-3}$$

$$\boxed{b = -.5}$$

$$\begin{array}{r} 4 \\ 10 \\ -2.5 \\ \hline 1.5 \end{array}$$

$$3 \overline{) 1.5}$$

Homework

Worksheet