

Name Key
Mrs. Roubos

Date _____
8R Period _____

Homework

Solve the following

$$1) 2 \left(\frac{c-1}{2} \right) = (12) \cdot 2$$

$$\begin{array}{r} c-1 = 24 \\ +1 \quad +1 \\ \hline \end{array}$$

$$\boxed{c = 25}$$

$$2) 9 \left(\frac{h+20}{9} \right) = (11) \cdot 9$$

$$\begin{array}{r} h+20 = 99 \\ -20 \quad -20 \\ \hline \end{array}$$

$$\boxed{h = 79}$$

$$3) 4 \left(\frac{x+9}{4} \right) = (2.1) \cdot 4$$

$$\begin{array}{r} x+9 = 8.4 \\ -9 \quad -9 \\ \hline \end{array}$$

$$\boxed{x = -0.6}$$

$$4) 2 \left(\frac{m-3}{2} \right) = (37) \cdot 2$$

$$\begin{array}{r} m-3 = 74 \\ +3 \quad +3 \\ \hline \end{array}$$

$$\boxed{m = 77}$$

$$5) \frac{5x}{12} + \frac{x}{6} + \frac{x}{3} + \frac{x}{12} = 6$$

$$\left(\frac{5}{12}x + \frac{1}{6}x + \frac{1}{3}x + \frac{1}{12}x \right) = 6$$

$$\frac{1x = 6}{1 \quad 1}$$

$$\boxed{x = 6}$$

$$6) \frac{2x}{3} - \frac{5x}{6} + \frac{1}{2} = -\frac{3}{2}$$

$$\left(\frac{2}{3}x - \frac{5}{6}x \right) + \frac{1}{2} = -\frac{3}{2}$$

$$\begin{array}{r} -\frac{1}{6}x + \frac{1}{2} = -\frac{3}{2} \\ +\frac{1}{2} \quad -\frac{1}{2} \\ \hline \end{array}$$

$$\left(\frac{-6}{1} \right) \left(-\frac{1}{6}x \right) = (-2) \left(\frac{-6}{1} \right)$$

$$\boxed{x = 12}$$