

Warm up:

Solve.

$$1) 3x + 11 = -5$$

$$\quad \quad \quad \cancel{-11} \quad \quad \cancel{-11}$$

$$\hline \frac{3x}{3} = \frac{-16}{3}$$

$$\hline x = -\frac{16}{3} = -5\frac{1}{3}$$

$$2) 2 - 8x = 5$$

$$\quad \quad \quad \cancel{-2} \quad \quad \cancel{-2}$$

$$\hline \frac{-8x}{-8} = \frac{3}{-8}$$

$$\hline x = -\frac{3}{8}$$

HW Solutions

$$\textcircled{2} \quad -7.4 = -5.2 + 2x$$

$$+5.2 \quad +5.2$$

$$\begin{array}{r} 7.4 \\ -5.2 \\ \hline 2.2 \end{array}$$

$$\frac{-2.2}{2} = \frac{2x}{2}$$

$$\textcircled{-1.1 = x}$$

$$\begin{array}{r} 1 \\ -2 \\ \hline 0 \\ -2 \\ \hline 0 \end{array}$$

$$\textcircled{2} \quad \begin{array}{r} -8.62 = 5.4 - 6 \\ -5.4 \quad -5.4 \\ \hline \end{array}$$

$$\begin{array}{l} -8.62 - 5.4 \\ -8.62 + (-5.4) \end{array}$$

$$\begin{array}{r} 8.62 \\ + 5.40 \\ \hline 14.02 \end{array}$$

$$\begin{array}{r} -14.02 = -6 \\ -1 \quad -1 \\ \hline \end{array}$$

$$\underline{\underline{14.02 = 6}}$$

$$\textcircled{3} \quad -3.1 = 4.73 - \frac{r}{2.9}$$

$$-4.73 - 4.73$$

$$-3.1 - 4.73$$

$$-3.1 + (-4.73)$$

$$\begin{array}{r} 4.73 \\ + 3.10 \\ \hline 7.83 \end{array}$$

$$-2.9(-7.83) = \left(-\frac{r}{2.9}\right)(-2.9)$$

$$\textcircled{22.707 = r} = r$$

$$\begin{array}{r} 7.83 \\ \times 2.9 \\ \hline 7047 \\ 15660 \\ \hline 22707 \end{array}$$

$$\textcircled{6} \quad \begin{array}{r} -1.7 - 3.6c = -26.18 \\ +1.7 \qquad \qquad \qquad +1.7 \end{array}$$

$$\begin{array}{r} 3.6 \overline{) 24.48} \\ \underline{-216} \\ 288 \\ \underline{-288} \\ 0 \end{array} \quad \begin{array}{r} -3.6c = -24.48 \\ \underline{-3.6} \quad \underline{-3.6} \end{array}$$

$$\begin{array}{r} 3.6 \overline{) 24.48} \\ \underline{-216} \\ 288 \\ \underline{-288} \\ 0 \end{array}$$

$$\begin{array}{r} 3 \\ \times 36 \\ \hline 216 \end{array} \quad \begin{array}{r} 4 \\ \times 36 \\ \hline 288 \end{array}$$

$$c = 6.8$$

$$\begin{array}{r} 26.18 \\ - 1.70 \\ \hline 24.48 \end{array}$$

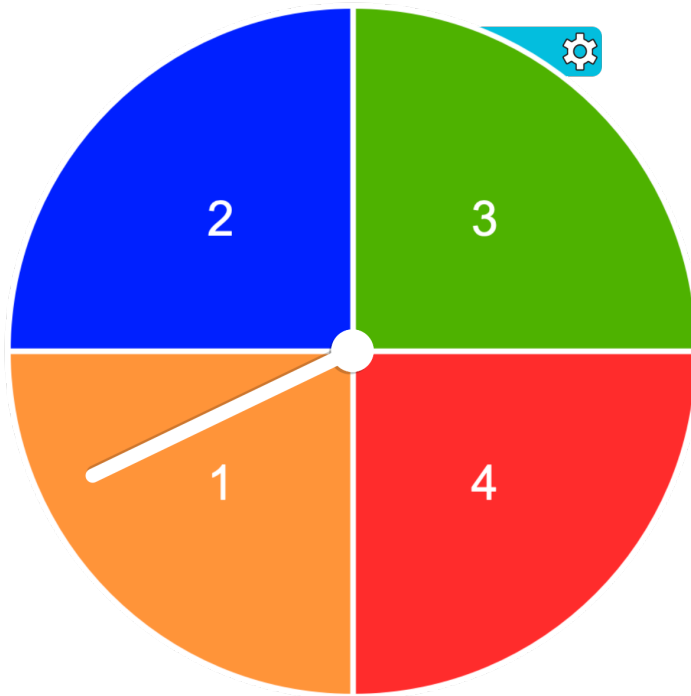
$$\textcircled{Q} \quad \frac{x}{5.62} + 8.3 = 2.6$$

$$\begin{array}{r} 2.6 - 8.3 \\ 2.6 + (-8.3) \\ \hline -5.7 \end{array}$$

$$5.62 \left(\frac{x}{5.62} \right) = (-5.7) 5.62$$

$$x = -32.034$$

$$\begin{array}{r} 5.62 \\ \times 5.7 \\ \hline 3934 \\ 28100 \\ \hline 32034 \end{array}$$



$$\begin{array}{r} -6 - 3x = -7 \\ +6 \qquad +6 \\ \hline -3x = -1 \\ \hline -3 \quad -3 \\ \hline x = \frac{1}{3} \end{array}$$

$$x = 0.\overline{333}$$

$$3 - 9$$
$$3 + (-9)$$

$$3 = -x + 9$$
$$\begin{array}{r} -9 \qquad -9 \\ \hline -6 = -x \\ \hline -1 \quad -1 \end{array}$$
$$6 = x$$

$$\begin{array}{r} -8 = 4x - 5 \\ +5 \quad \quad +5 \\ \hline -3 = 4x \\ \frac{-3}{4} = \frac{4x}{4} \\ \hline -\frac{3}{4} = x \end{array}$$