

HW: Worksheet

Warm up:

Solve.

1) $-4 = 7 - x$

$$\xrightarrow{-7} -7$$

$$\frac{-11}{-1} = \frac{-x}{-1}$$

$$11 = x$$

2) $5x - 3 = -12$

$$\xrightarrow{+3} +3$$

$$\frac{5x}{5} = \frac{-9}{5}$$

$$x = -\frac{9}{5} = -\frac{14}{5}$$

3) $2 = -5 + 6x$

$$\xrightarrow{+5} +5$$

$$\frac{7}{6} = \frac{6x}{6}$$

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

(14)

$$-8s + 1 = 33$$

$$\begin{array}{r} -1 \\ -1 \end{array}$$

$$-8s = 32$$

$$\begin{array}{r} -8 \\ -8 \end{array}$$

$$s = -4$$

⑧

$$3x + 1 = 10$$

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

$$3x = 9$$

$$\frac{3x}{3} = \frac{9}{3}$$

$$\boxed{x = 3}$$

$$\begin{array}{r} \textcircled{4} \quad 5x + 4 = 19 \\ \quad \quad -4 \quad -4 \\ \hline \quad \quad 5x = 15 \\ \quad \quad \frac{5}{5} \quad \frac{5}{5} \\ \hline \quad \quad \textcircled{x = 3} \end{array}$$

$$\begin{array}{r} \text{a) } 2t + 7 = -1 \\ \quad -7 \quad -7 \\ \hline 2t = -8 \\ \frac{2}{2} \quad \frac{-8}{2} \\ \hline t = -4 \end{array}$$

⑫

$$\begin{array}{r} -4w - 4 = 8 \\ +4 \quad +4 \\ \hline -4w = 12 \\ \hline \frac{-4}{-4} \quad \frac{12}{-4} \\ \hline w = -3 \end{array}$$

⑬

$$-7y + 3 = -25$$

$$\begin{array}{r} -7y + 3 = -25 \\ \underline{-3 \quad -3} \\ -7y = -28 \\ \underline{-7 \quad -7} \end{array}$$

$$y = 4$$

Q23

$$\begin{array}{r} 4\sqrt{+} + 3.5 = 12.5 \\ - 3.5 \quad - 3.5 \\ \hline \end{array}$$

$$\begin{array}{r} 4\sqrt{+} = 9 \\ \hline 4 \quad 4 \end{array}$$

$$\sqrt{+} = 2.25$$

$$\begin{array}{r} 2.25 \\ 4 \overline{) 9.00} \\ \underline{- 8} \\ 10 \\ \underline{- 8} \\ 20 \\ \underline{- 20} \\ 0 \end{array}$$

⑫

$$-2x + 5 = -13$$

$$\begin{array}{r} -5 \\ -5 \end{array}$$

$$-2x = -18$$

$$\begin{array}{r} -2 \\ -2 \end{array}$$

$$x = 9$$

$$\begin{array}{r} 48 \\ 14 + 2p = 8 \\ -14 \quad -14 \\ \hline 2p = -6 \\ \frac{2p}{2} = \frac{-6}{2} \\ \hline p = -3 \end{array}$$

⑩

$$\begin{array}{r} 25 + 27 = 47 \\ -25 \\ \hline \end{array}$$

$$\begin{array}{r} 27 = 22 \\ \frac{2}{2} \quad \frac{2}{2} \\ \hline \end{array}$$

$$\underline{y = 11}$$

⑦

$$\begin{array}{r} 5 + 4d = 37 \\ - 5 \qquad - 5 \\ \hline 4d = 32 \\ \frac{4}{4} \quad \frac{32}{4} \\ \hline d = 8 \end{array}$$

$$0.4x + 2.9 = 1.5$$

$$-2.9 \quad -2.9$$

$$1.5 - 2.9$$

$$1.5 + (-2.9)$$

$$\begin{array}{r} 2.9 \\ -1.5 \\ \hline -1.4 \end{array}$$

$$\begin{array}{r} 0.4 \overline{) 1.4} \\ \underline{1.2} \\ 0.2 \\ \underline{0.2} \\ 0.0 \end{array}$$

$$\begin{array}{r} 0.4x = -1.4 \\ \hline 0.4 \quad 0.4 \end{array}$$

$$\underline{X = -3.5}$$

$$\frac{V}{2.2} - 0.1 = 7.4$$

$$+0.1 \quad +0.1$$

$$2.2 \left(\frac{V}{2.2} \right) = (7.5) 2.2$$

$$V = 16.5$$

$$\begin{array}{r} 7.5 \\ \times 2.2 \\ \hline 150 \\ 1500 \\ \hline 16.50 \end{array}$$

$$\begin{array}{r}
 -14.3 + 1.4 \\
 14.3 \\
 - 1.4 \\
 \hline
 -12.9
 \end{array}$$

$$\begin{array}{r}
 4.3 \\
 3 \overline{) 12.9} \\
 \underline{-12.9} \\
 0.9 \\
 \underline{-0.9} \\
 0
 \end{array}$$

$$\begin{array}{r}
 -14.3 = -1.4 - 3d \\
 + 1.4 \quad + 1.4 \\
 \hline
 -12.9 = -3d \\
 \hline
 -3 \qquad \underline{-3} \\
 \hline
 4.3 = d
 \end{array}$$

HW Solutions

$$1) -1.3g + 1.9 = -11.1$$

$$2) -5.1 - z = 6.5$$

$$3) \frac{k}{3.5} + 7.4 = 8$$

$$4) 19.72 = -3.8 + 4.2a$$

$$5) -5 = 3.75 - \frac{m}{2.4}$$

$$1) -1.3g + 1.9 = -11.1$$

$$\quad -1.9 \quad -1.9$$

$$-1.3g = -13$$

$$\quad -1.3 \quad -1.3$$

$$g = 10$$

$$\begin{array}{r} 1.3 \overline{) 13} \\ \underline{10} \\ 13 \\ \underline{-13} \\ 00 \end{array}$$

$$\begin{array}{r} -11.1 - 1.9 \\ -11.1 + (-1.9) \\ + 1.1 \\ + 1.9 \\ \hline -13.0 \end{array}$$

$$2) -5.1 - z = 6.5$$

$$+5.1 \quad +5.1$$

$$-z = 11.6$$

$$\frac{-z}{-1} = \frac{11.6}{-1}$$

$$z = -11.6$$

$$3) \frac{k}{3.5} + 7.4 = 8.0$$
$$\quad \quad \quad -7.4 \quad -7.4$$

$$3.5 \left(\frac{k}{3.5} \right) = (0.6) 3.5$$

$$k = 2.1$$

$$\begin{array}{r} 3 \\ 3.5 \\ \times 0.6 \\ \hline 2.10 \end{array}$$

$$\begin{array}{r} 4) \overset{!}{19.72} = -3.8 + 4.2a \\ + \overset{!}{3.80} + 3.8 \\ \hline \overset{!}{23.52} = \overset{!}{4.2a} \\ \underline{4.2} \quad \underline{4.2} \\ \hline \overset{!}{5.6} = \overset{!}{9} \end{array}$$

$$5) -5 = 3.75 - \frac{m}{2.4}$$

