

November 16, 2011

Get out your homework

$$\begin{array}{l} 8) \quad 7 = 8 + \frac{v}{8} \\ \quad -8 \quad | \quad -8 \\ \hline 8 \cdot -1 = \frac{v}{8} \cdot 8 \\ \quad -8 = v \end{array}$$

$$\begin{array}{l} 7) \quad 1 + \frac{-9}{2} = 5 \\ \quad -1 \quad | \quad -1 \\ \hline \cancel{2} \cdot \cancel{2} = \cancel{4} \cdot -2 \\ \quad 2 = -8 \end{array}$$

$$\begin{array}{l} 5) \quad 1 = \frac{p}{2} + 5 \\ \quad -5 \quad | \quad -5 \\ \hline 2 \cdot 1 = \frac{p}{2} \cdot 2 \\ \quad -8 = p \end{array}$$

11/16 - Solving 2-Step Equations with Fractions

The 2 steps are:

- 1- Undo the add/subtract part
- 2- Undo the multiply/divide part

"undo" means:

- **do the opposite operations
- **on both sides

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

$$2\frac{2}{3} = -b$$

$$-3 = +b$$

$$-3 = b$$

$$\begin{array}{r}
 -2\frac{1}{3} - \frac{1}{2}v = -1\frac{7}{12} \frac{7}{12} \\
 +2\frac{1}{3} \quad \frac{1}{2}v = \frac{3}{12} \frac{9}{12} \cdot \frac{-2}{1} \\
 \hline
 v = -\frac{3}{2} \\
 v = -1\frac{1}{2}
 \end{array}$$

Handwritten work showing the solution of a linear equation. The first equation is $-2\frac{1}{3} - \frac{1}{2}v = -1\frac{7}{12} \frac{7}{12}$. The second equation is $+2\frac{1}{3} \quad \frac{1}{2}v = \frac{3}{12} \frac{9}{12} \cdot \frac{-2}{1}$. The final solutions are $v = -\frac{3}{2}$ and $v = -1\frac{1}{2}$.

$$\begin{array}{r}
 -\frac{1}{3} - 2\frac{1}{3}n = -6\frac{5}{9} \\
 +\frac{1}{3} \qquad \qquad \qquad +\frac{1}{3} \qquad \frac{5}{9} \\
 \hline
 -2\frac{1}{3}n = -6\frac{2}{9} \\
 \times \frac{3}{3} \qquad \qquad \qquad \times \frac{3}{3} \\
 \hline
 -2n = -6\frac{2}{3} \\
 \div (-2) \qquad \qquad \qquad \div (-2) \\
 n = 3\frac{1}{3}
 \end{array}$$

$$\begin{array}{r}
 1 \frac{5}{6} \\
 1 \frac{3}{6} + 1 \frac{1}{2} + \frac{3}{2} \\
 \hline
 2 \frac{2}{6} \\
 3 \frac{1}{6}
 \end{array}
 \quad
 \begin{array}{r}
 1 \frac{5}{6} = -\frac{3}{2} + 2m \\
 \hline
 3 \frac{1}{6} = 2m \\
 \cdot \frac{1}{2} \cdot \\
 \hline
 \frac{5}{6} = m \\
 \hline
 \frac{1}{2} = m
 \end{array}$$

Homework:

Blue worksheet WS11

#1-20 all

due Thursday