

October 4, 2011

**Warm-Up:**

6pts

$$\begin{aligned} 1. \quad -13 &= 7 - m \\ -7 \quad -7 \\ -20 &= -m \\ 20 &= m \end{aligned}$$

$$\begin{aligned} 2. \quad x + (+4) &= -8 \\ -4 \quad -4 \\ x &= -12 \end{aligned}$$

$$\begin{aligned} 3. \quad 19 &= k + (-25) \\ +25 \quad +25 \\ 44 &= k \end{aligned}$$

Get out homework...

Questions???

$$10) \quad \begin{array}{r} -1 - x = -1 \\ +1 \quad +1 \\ \hline -x = 0 \\ \hline x = 0 \end{array}$$

30  
pts

$$30) \quad \begin{array}{r} -5 = -9 - k \\ +9 \quad +9 \\ \hline 4 = -k \end{array}$$

$$4 = -k \\ \hline -4 = k$$

## 10/4 - Solving 1-step equations with rational numbers

### **Remember:**

1. Add a number to both sides
2. Subtract a number from both sides
3. Exchange sides
4. Change the signs of both sides

**~Opposite operation~  
~Both sides~**

Solve each equation showing all of your work

$$\begin{array}{r} t + 3.5 = -1.6 \\ -3.5 \quad -3.5 \\ \hline t = -5.1 \end{array}$$

$$\begin{array}{r} m - 9.25 = -20.00 \\ +9.25 \quad +9.25 \\ \hline m = -10.75 \end{array}$$

$$\begin{array}{r} -14.7 = r - 32.9 \\ +32.9 \quad +32.9 \\ \hline 18.2 = r \end{array}$$

Biggest # on  
the top if  
subtracting

Solve each equation showing all of your work

$$y + (+17) = 5.8$$

~~-17.0~~<sup>16</sup>

$$-17$$
$$y = -11.2$$

$$-2.30h + (-8.98)$$

<sup>+8.98</sup>

$$6.68 = h \quad +8.98$$

Solve each equation showing all of your work

$$\begin{aligned}v + 4\frac{2}{3} &= -1\frac{1}{4} \\ -4\frac{2}{3} & \quad -4\frac{2}{3} \cdot \frac{4}{4} = -\frac{8}{4} \\ v &= -5\frac{11}{12}\end{aligned}$$

$$\begin{aligned}-5\frac{2}{5}y - 2\frac{7}{8} &= 2\frac{1}{6} \\ +2\frac{7}{8} & \quad +2\frac{7}{8} \cdot \frac{5}{5} = \frac{35}{20} \\ -2\frac{21}{40} &= y\end{aligned}$$

Solve each equation showing all of your work

$$\begin{aligned} 11\frac{3}{4} & - 4\frac{3}{8} + u \\ + 4\frac{3}{8} & + 4\frac{3}{8} \\ \hline 15\frac{6}{8} & = u \\ 1\frac{6}{8} & \\ \hline 16\frac{1}{8} & = u \end{aligned}$$

$$\begin{aligned} 8\frac{1}{6} & = 12\frac{3}{4} - c \\ -12\frac{3}{4} & - 12\frac{3}{4} \\ \hline -12\frac{3}{4} & \quad \frac{9}{12} \\ 8\frac{1}{6} & \quad \frac{2}{12} \\ \hline -4\frac{7}{12} & = -c \\ 4\frac{7}{12} & = c \end{aligned}$$

## Homework:

**Worksheet:** WS 2.1b  
Blue

**Due:** Wednesday  
(end of class)