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**October 12, 2011**

*No Warm-Up!*

Get out check/register worksheets

Questions??

## 10/12 - Solving Equations by Multiplying/Dividing (Day 2)

### Remember:

1. Times both sides by the same number
2. Divide both sides by the same number
3. Change the signs of both sides

Try these:

$$\frac{3c}{3} = \frac{-10}{3}$$

$$c = -3\frac{1}{3}$$

all answers must  
be completely  
simplified.

$$\frac{15}{-4} = \frac{-4v}{-4}$$

$$-3\frac{3}{4} = v$$

$$\frac{-20}{-6} = \frac{-6k}{-6}$$

$$3\frac{1}{3} = k$$

$$\begin{array}{r} 6 \overline{)20} \\ \underline{12} \phantom{0} \\ 8 \phantom{0} \\ \underline{6} \phantom{0} \\ 2 \phantom{0} \\ \underline{2} \phantom{0} \\ 0 \end{array}$$

Solve each:

$$\frac{2.4x}{2.4} = \frac{8}{2.4}$$

$$x = 3.\overline{3}$$

$$\begin{array}{r} 3.33 \\ 2.4 \overline{) 8.00} \\ \underline{-7.2} \phantom{00} \\ 80 \\ \underline{-72} \phantom{00} \\ 80 \\ \underline{-72} \phantom{00} \\ 80 \end{array}$$

$\frac{2.4}{2.4} = 1$

$$\cancel{5} \cdot \frac{n}{\cancel{-5}} = 0.7 (-5)$$

$$n = -3.5$$

$$\frac{0.7}{5}$$

Count decimals

$$(-1.2) 9 = \frac{a}{-1.2} \cdot -1.2$$

$$-10.8 = a$$

$$\frac{-12}{9} = -10.8$$

Solve each:

$$\frac{3}{2} \cdot \frac{2x}{3} = \frac{1}{2} \cdot \frac{3}{2}$$
$$x = \frac{3}{4}$$

Times by the reciprocal  
of the fraction  
with the variable.

$$\frac{1}{5} \cdot \frac{7}{12} = -\frac{5n}{6} \cdot -\frac{6}{5}$$
$$\frac{7}{60} = n$$

$$\frac{-42}{60} \text{ Reduces to}$$

$$-x \cdot \frac{b}{-11} = -24 \cdot -11$$
$$b = 264$$

## Homework:

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- 3 steps on each
- 1- write the problem
  - 2-  $\times/\div$  on both sides
  - 3- answer

due tomorrow