

October 13, 2011

~~6pts~~ Warm-Up:

$$\frac{3-2c}{2-3} = -\frac{12-3}{1-2}$$
$$c = \frac{-36}{2}$$

$$c = -18$$

$$\frac{-4k}{-4} = \frac{26}{-4}$$
$$k = 6\frac{2}{4}$$
$$k = 6\frac{1}{2} \text{ :)$$

$$8 \overline{) 1.20}$$
$$\begin{array}{r} .15 \\ 8 \overline{) 1.20} \\ \underline{8} \\ 40 \\ \underline{40} \\ 0 \end{array}$$

$$\frac{1.2}{8} = \frac{8k}{8}$$
$$.15 = k$$

Get out your homework:

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Questions??

$$36) \frac{888x}{888} = \frac{111}{888}$$

$$x = \frac{1}{8}$$

$$46) \frac{-1}{2} = \frac{x}{2} \cdot 2$$
$$\frac{-1}{2} = x$$

$$40) \frac{P}{F} = -10 \cdot 111$$

$$P = -1110$$

$$38) \frac{4b}{4} = \frac{-15}{4}$$
$$b = -3 \frac{3}{4}$$
$$4) \frac{3}{4}$$
$$\frac{-12}{4}$$

10/13 - Solving Two-Step Equations



Keep it balanced!!
Whatever you do to
one side, you **MUST**
do to the other.

- 1. Undo the add/subtract**
 - opposite operation
 - on both sides
- 2. Undo the multiply/divide**
 - opposite operation
 - on both sides

$$\begin{array}{r} 2n + 3 = 11 \\ -3 \quad -3 \\ \hline 2n = 8 \\ \frac{2n}{2} = \frac{8}{2} \\ n = 4 \end{array}$$

Solve each equation showing ALL of your work.

1. Undo the add/subtract

- opposite operation
- on both sides

2. Undo the multiply/divide

- opposite operation
- on both sides

$$4k - 5 = 9$$

$$+5 \quad +5$$

$$\frac{4k}{4} = \frac{14}{4}$$

$$k = 3\frac{1}{2}$$

$$4 \overline{) 14} \begin{array}{r} 3 \\ -12 \\ \hline 2 \end{array}$$

$$\frac{x}{6} + 10 = 17$$

$$-10 \quad -10$$

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

$$x = 42$$

$$12 = 9 + \frac{b}{4}$$

$$-9 \quad -9$$
$$4 \cdot 3 = \frac{b}{4} \cdot 4$$

$$12 = b$$

Remember:

Same sign
Add and
Keep the sign

Different signs
Subtract and
Keep the sign of
the biggest #

$$-4 + \frac{d}{-5} = -12$$

$$+4 \quad \quad \quad +4$$

$$-5 \cdot \frac{d}{-5} = -8 \cdot -5$$

$$d = 40$$

$$-3c + 17 = -4$$

$$-17 \quad -17$$

$$\frac{-3c}{-3} = \frac{-21}{-3}$$

$$c = 7$$

"Batman Rules"

Remember:

$$+ \cdot + = +$$

$$+ \cdot - = -$$

$$- \cdot + = -$$

$$- \cdot - = +$$

$$-20 = \frac{u}{-5} - 7$$

$$+7 \quad \quad \quad +7$$

$$-5 \cdot 13 = \frac{u}{-5} \cdot -5$$

$$65 = u$$

$$10 + 9y = -14$$

$$\frac{-10}{9} = \frac{-24}{9}$$
$$y = -2\frac{6}{9}$$
$$-2\frac{2}{3}$$

Homework:

Lavendar Worksheet

1-20 all

due tomorrow for 5th

due Monday for 2nd