

February 6, 2015

*Multiplicative Inverse*

$$\frac{a}{1} \rightarrow \frac{1}{a} = \frac{a}{a} = \boxed{1}$$

$$a \cdot \boxed{1} = a$$

*Multiplicative Identity*

Feb 6-9:03 AM

$$\frac{3}{4} \cdot \frac{4}{3} = \frac{12}{12} = 1 \checkmark$$

$$x - \boxed{6} = 8$$

$$+6 \quad +6$$


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$$-5 + (\boxed{5}) = 0$$

*Inverse of -5*

Feb 6-9:18 AM

$$x - \boxed{6} = 12$$

$$+6 \quad +6$$


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$$a + (-a) = \boxed{0} \text{ Identity}$$

*Inverse*

Feb 6-9:21 AM

$$-|37| + |-9| + (-8) + 3$$

$$-37 + 9 + (-8) + 3$$

$$-28 + (-8) + 3$$

$$-36 + 3$$

$$\boxed{-33}$$

Feb 6-9:24 AM

If  $\boxed{x + y = 0}$ ,

then  $x$  &  $y$  are opposites

T or F

$$\begin{array}{r} 5 + y = 0 \\ -5 \quad -5 \\ \hline 0 \quad y = -5 \end{array}$$

Feb 6-9:28 AM

*Subtraction*

$$\boxed{x - y} = x + (-y)$$

*Short Hand*

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$$2 - 5 = 2 + (-5)$$

$$2 - 5 \neq 5 - 2 \text{ true!}$$

$$2 + (-5) = (-5) + 2$$

$$-3 = -3 \checkmark$$

$$-6 - 8 - (-5) - (-2) + 4 + (-6) - 1$$

$$-6 + (-8) + 5 + 2 + 4 + (-6) + (-1)$$

$$-14 + 5 + 2 + 4 + (-6) + (-1)$$

$$-9 + 2 + 4 + (-6) + (-1)$$

$$-7 + 4 + (-6) + (-1)$$

$$-3 + (-6) + (-1)$$

$$-9 + (-1)$$

$$\boxed{-10}$$

Feb 6-9:31 AM

## Multiplication

- Same "sign" the result is positive.

$$5 \cdot 6 = 30$$

$$* (-5) \cdot (-6) = 30$$

- Opposite "signs; result is negative.

Feb 6-9:41 AM

Start 2.4 assignment  
for Monday.

Feb 6-9:47 AM