

$$8(4s - t)$$

$$s = 3 \quad t = 9$$

Evaluate

$$8(4(3) - 9)$$

$$8(12 - 9)$$

$$8(3) = \boxed{24}$$

1.)  $\frac{5s^2}{t} \quad s = 2 \quad t = 8$

$$\left\{ \frac{5(2)^2}{8} \right. \quad 5 \cdot 2 \cdot 2 = 20$$

↓  
PEMDAS  
↑

$$\frac{5(4)}{8} = \frac{20 \div 4}{8 \div 4} = \boxed{\frac{5}{2}}$$

2.)  $\frac{2x^2}{y^3} \quad x = 6 \quad y = 4$

PEMDAS

$$\left\{ \frac{2(6)^2}{(4)^3} = \frac{2(36)}{64} \right.$$

$$\frac{72 \div 8}{64 \div 8} = \boxed{\frac{9}{8}}$$

$$1.) \ 6 + (-4)$$

$$6 - 4 = \boxed{2}$$

$$2.) \ \overset{\downarrow}{-6} + 4$$

$$6 - 4 = 2 \quad \boxed{-2}$$

$$3.) \ 6 + 4 = \boxed{10}$$

$$4.) \ \overset{\downarrow}{-6} + \overset{\downarrow}{(-4)} = \boxed{-10}$$

$$6 + 4 = 10$$

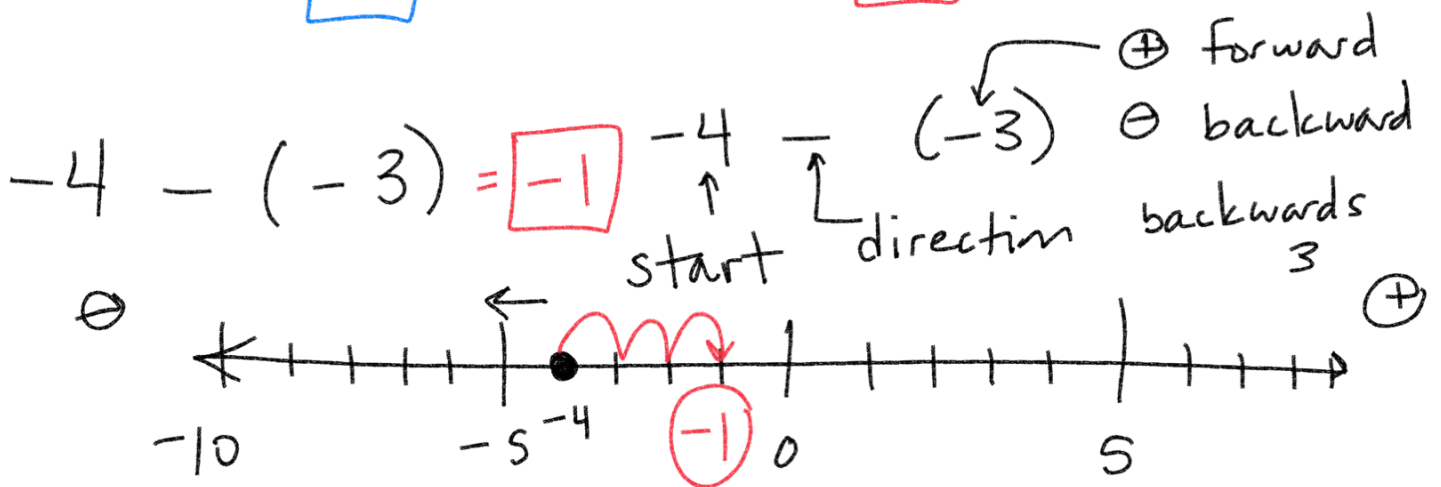
$$5.) \ 3 + 7 = \boxed{10}$$

$$6.) \ -3 + \overset{\downarrow}{7}$$

$$7 - 3 = 4 \quad \boxed{4}$$

$$7.) \ -3 + (-7) = \boxed{-10}$$

$$8.) \ 3 + (-7) = \boxed{-4}$$



$$-4 - (-3)$$

$$-4 + 3 = \textcircled{-1}$$

$$8 + (-2)$$

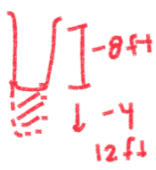
$$8 - 2$$

$$8 + (-2)$$

$$8 - 2$$

$$1.) -8 - 4$$


$\downarrow$

$$-8 + (-4) = -12$$


$$2.) 6 - 9 = \boxed{-3}$$
$$6 + (-9)$$

$$3.) 8 - 4 = \boxed{4}$$

$$4.) -6 - 9$$
$$-6 + (-9) = \boxed{-15}$$


$$5.) 8 - (-4)$$
$$8 + 4 = 12$$

$$6.) -6 - (-9)$$
$$-6 + 9 = \boxed{3}$$

$$7.) -8 - (-4)$$
$$-8 + 4 = \boxed{-4}$$

$$8.) 6 - (-9)$$
$$6 + 9 = \boxed{15}$$

$$1.) 7 - (-11)$$
$$7 + 11 = \boxed{18}$$

$$2.) -7 - (-11)$$
$$-7 + 11 = \boxed{4}$$

$$3.) -7 - 11$$

$$4.) 7 - 11$$

$$-7 - (+11) \text{ or } [-7 + (-11)]$$

$\textcircled{-18}$

$$7 + (-11) = \boxed{-4}$$

# Mult/Div Real Numbers

## Public School

CONFORMITY!

You
Happy
sad
Happy
sad

Everyone Else

Happy

Happy

sad

sad

Situation

Good

Bad

Bad

Good!!

Different  $\rightarrow$  Bad      Same  $\rightarrow$  Good!

$$8 * 4 = 32$$

$$8 * (-4) = -32$$

$$-8 * 4 = -32$$

$$-8 * (-4) = 32$$

$$\overset{1}{(-2)} \overset{2}{(-2)} \overset{3}{(-2)} \overset{4}{(2)} (2) (-2) = +64$$

Even # of negatives  $\rightarrow \oplus$

$$\overset{1}{(-2)} \overset{2}{(-2)} (2) \overset{3}{(2)} \overset{4}{(-2)} (2)$$

odd # of negatives  $\rightarrow \ominus$   
-64

# Distributive Property

$$2(5x+4)$$

$$2(5x) + 2(4)$$

$$10x + 8$$

$$4(7x-3)$$

$$28x - 12$$

$$\ominus(-6x-3)$$

$$\frac{1}{4}(12x-8)$$

$$\frac{1}{4}(12x) - \frac{1}{4}(8) = \frac{12x}{4} - \frac{8}{4}$$

$$3x - 2$$

$$2(5x+4)$$

$$5x+4 + 5x+4$$

$$10x + 8$$

$$(3x+4)7$$

$$21x + 28$$

$$-1(-6x-3)$$

change  
each  
sign!

$$6x + 3$$

PEMDAS

$$8 - 2(5x + 3) - 4x$$

$$\{ 8 - 10x - 6 - 4x$$

Combine like terms

$$8 - 6 = 2 \quad -10x - 4x = -14x$$

$$\boxed{-14x + 2}$$

$$1.) -5(8 - b) - 5(-b)$$

$$\boxed{-40 + 5b}$$

$$2.) -(3k - 12)$$

$$\boxed{-3k + 12}$$

$$3.) 5(t - 3) - 2t$$

$$\boxed{5t} - 15 \quad \boxed{-2t}$$

$$\boxed{3t - 15}$$

$$4.) 4(2x + 7)$$

$$\boxed{8x + 28}$$

$$5.) 5(3x + 12) + 8x$$

$$15x + 60 + 8x$$

$$\boxed{23x + 60}$$

$$6.) -6 - 3(2k + 4)$$

$$-6 - 6k - 12$$

$$\boxed{-6k - 18}$$

