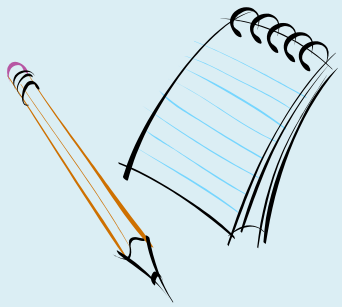
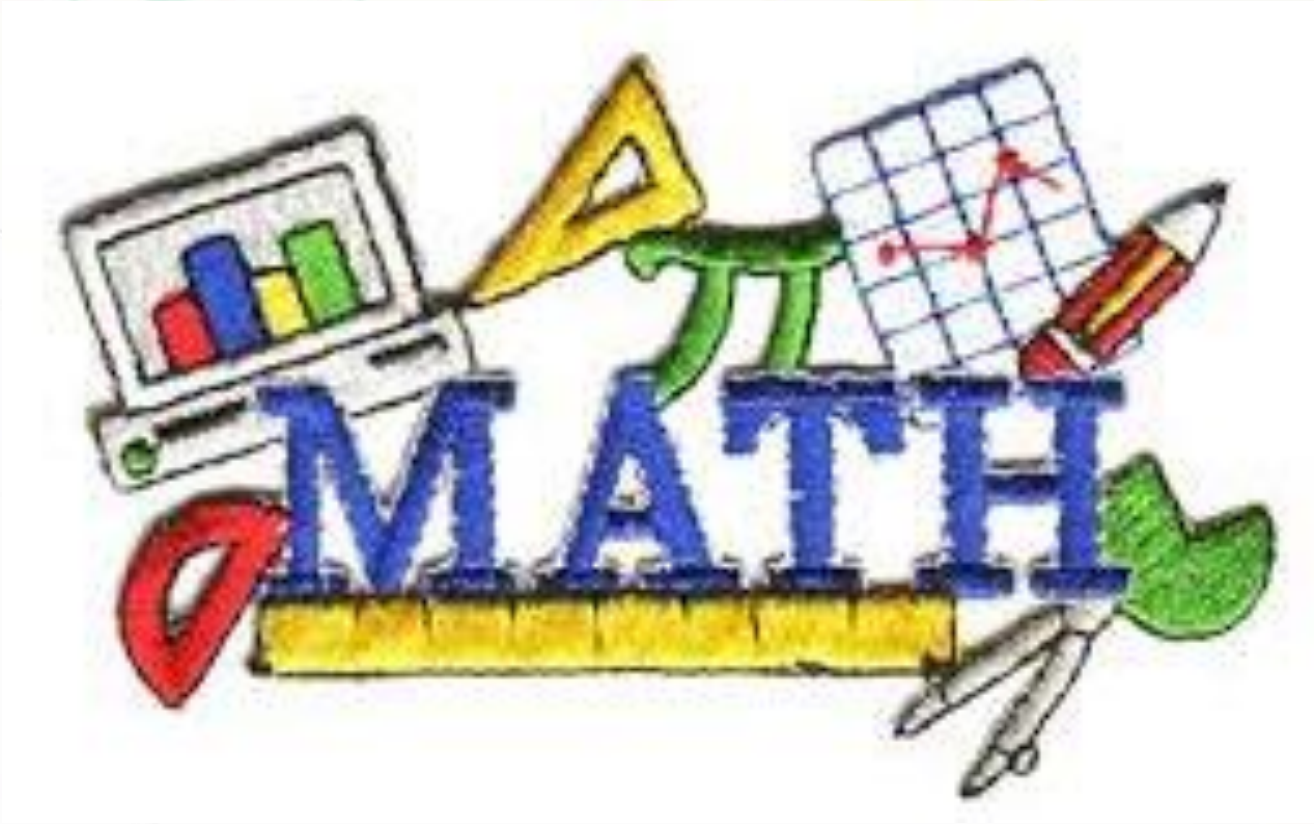
Before we start…

Grab paper/a notebook and a pencil!





Mrs. MacLacklin

Unit 11:

REVIEW

May 8, 2014

Announcements

Check our team website to answer any questions you may have first, please!

Use your Weekly Calendars- EVERYDAY ☺

If you do not understand something, please come to Office hours and get help!

Live sessions are REQUIRED, please be on time, and stay until you are dismissed

Participating in lessons is KEY

Announcements

Do not follow the Daily Plan!

Follow this schedule for Math everyday!

Study Island Pathways

If there are any pathways, from any month, that you owe me – still work on them! They are still part of your grade!

Math and Reading Scantron

The window for the Math and Reading Spring Scantron tests opens April 28th! Make sure to complete both of these assessments before June 6th! They will both be included in your Math and English grades for Quarter 4.

EXPECTATIONS

EXPECTATIONS OF ME:

- You can expect that I will...
  - Start class on time.
  - Treat everyone with respect.
  - Provide all students with what they need to be successful (students must participate to acquire).
  - Listen.
  - Find a way to help.
  - Provide timely feedback.
  - **Come to class with a smile!**

EXPECTATIONS OF YOU:

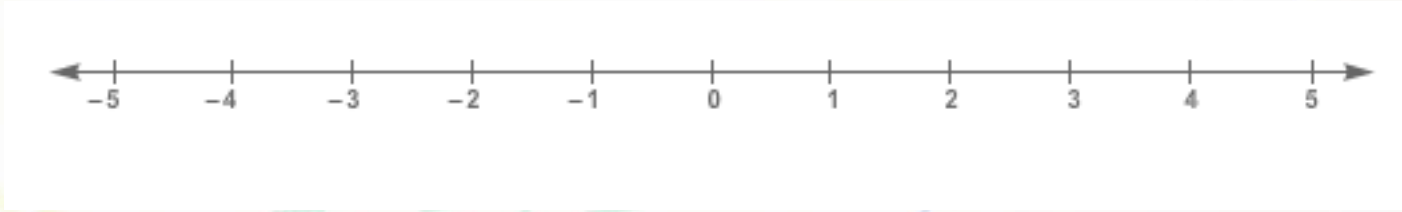
- I expect you to...
  - Be on time for class.
  - Treat all students and teachers with respect.
  - Try your best every day.
  - Ask questions at the appropriate time.
  - Use Blackboard tools when asked (participate!)
  - Listen.
  - Work in Study Island when directed.
  - **Come to class with a smile!**

Student Will…

- **Students will demonstrate an understanding of the material taught in Unit 11.**

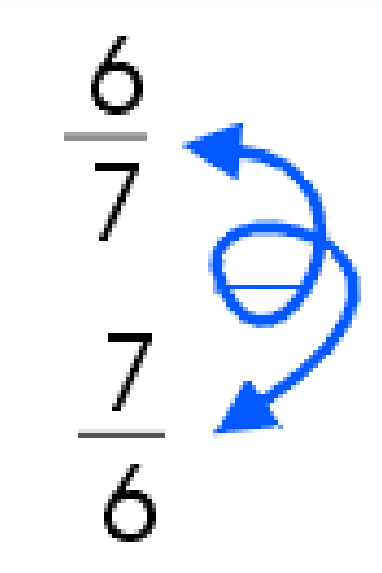
Opposites:

- The number line is made up of positive numbers, negative numbers, and zero. Positive numbers are to the right of zero and are greater than zero. Negative numbers are to the left of zero and are less than zero.
- Every number except zero has an opposite. For example, the opposite of 3 is –3. Positive 3 is three units to the right of zero, and –3 is three units to the left of zero.



Reciprocals

- Every number that can be expressed as a fraction has a multiplicative inverse.



QUICK CHECK

What is the reciprocal of the fraction $\frac{5}{8}$?

A 8/5

B 5/8

C - 5/8

QUICK CHECK

What is the opposite of the fraction $\frac{3}{4}$?

A 3/4

B 4/3

C - 3/4

REVIEW: RULES FOR ADDING AND SUBTRACTING Positives and Negatives

1. Positive + Positive = Positive
   Ex): 3+5= 8
2. Negative + Negative = Negative
   Ex): -3+ (-5)= 8
3. Positive + Negative= Answer is the number with biggest absolute value
   Ex): -3 + 5 = 2 (5 has the higher absolute value)

Quick Check!

-4 + 5 =

 1

 -9

 -1

Let's Try Some Together

-5 + 3= _____

3 + (-4)=_____

-2 - (-2)=_____

WE TRY

- 5.4 + 6.2 =
- Flip vertically, LINE UP THE DECIMALS

\+

_____

YOU TRY

- QUICK CHECK:
  3.1 + 2.2 =

A. 4.2
B. 5.3
C. 6.2

WE TRY

- 9.3 – 5.1 =
  Flip vertically, LINE UP THE DECIMALS!

-

_____

YOU TRY

- QUICK CHECK:
  8.9 – 5.3 =

A. 3.3

B. 3.6

C. 3

Tricks for adding and subtracting with negatives

Positive + Negative is just like subtracting a positive.

EX: 10 + (-3) = 7

10 – 3 = 7

Positive – negative is just like adding a positive

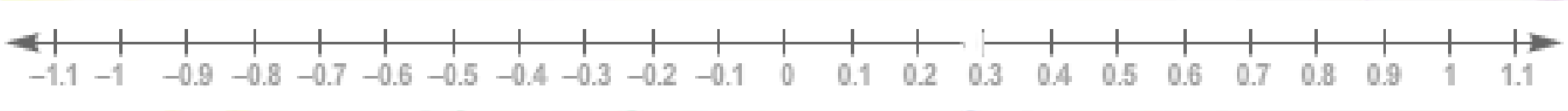
Ex: 10 - (-3) = 13

10 + 3 = 13

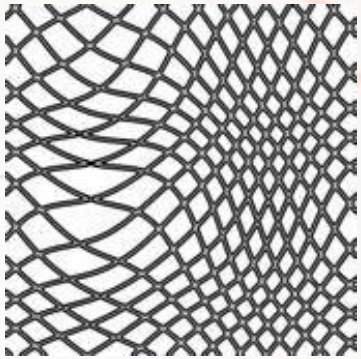
QUICK CHECK:

$$-0.4 - (-0.3) =$$

A. 0.1
B. -0.1
C. 0.7
D. -0.7



Gains and Losses



What does it mean to gain something?

\+ numbers

What does it mean to lose something?

\- numbers

A football team gains 24 yards on the first play, loses 14 yards on the second play, and gains 3 yards on the third play. How many yards would the football team have to gain or lose to have a net gain of 20 yards? Let y=yards gained or lost in the fourth play.

Quick Check

Yesterday was 90 degrees outside, today is 75 degrees. Describe this change.

A. There was a net loss of 15 degrees.
B. There was a net gain of 15 degrees.
C. The temperature broke even.

You Try!

1)Multiply across
2)Simplify

$$\frac{2}{5} \times \frac{3}{4}$$

$$A. \frac{6}{20}$$

$$B. \frac{3}{10}$$

You Try!

1)Multiply
2)Place your decimal

A. 6.25

B. 8.88

C. 7.38

$$\begin{array}{r} 3.7 \\ \times\ 2.4 \\ \hline \end{array}$$

Multiplying Or Dividing Positives and Negatives (Rules are the same!)

Positive x Positive = Positive (5 x 5 = 25)

Positive x Negative = Negative (5 x -5 = -25)

Negative x Negative = Positive (-5 x -5 = 25)

You Try!

$-6 \times -4 = \_\_\_$

A. 24

B. -24

C. 10

DETERMINE THE SIGN!

$$-3 \times 4 \times 6 \times (-2) \times (-4)$$

Positive

Negative

You Try!

$-48 \div -4 = \_\_\_$

A. 12

B. -12

C. 8

DETERMINE THE SIGN!

$$-20 \div 5 \div -2$$

Positive

Negative

COMMUTATIVE PROPERTY

Commutative Property of Addition: The order in which you find the sum of the addends in an expression does not change the answer.

Commutative Property of Multiplication: The order in which you multiply the factors in an expression does not change the answer.

Commutative Property: In multiplication and addition, ORDER DOESN'T MATTER!

EX: $5 + 2 = 7$ OR $2 + 5 = 7$

$5 \bullet 2 = 10$ OR $2 \bullet 5 = 10$

ASSOCIATIVE PROPERTY

Associative Property of Addition: The order in which you group addends in an expression does not change the answer.

Associative Property of Multiplication: The order in which you group factors in an expression does not change the answer.

Associative Property: In multiplication and addition, ORDER DOESN'T MATTER!

EX: $4 + (3 + 6) = 13$ OR $(4 + 3) + 6 = 13$

$5 \bullet (2 \bullet 3) = 30$ OR $(5 \bullet 2) \bullet 3 = 30$

DISTRIBUTIVE PROPERTY

"Stretch It Out"

Multiplying a number by a sum (or difference) is the same as multiplying the number by each number in the parenthesis and adding (or subtracting) the products.

EX: $2\,(4 + 3) = 14$

$2\,(7) = 14$

OR

$2\,(4 + 3) = (2 \bullet 4) + (2 \bullet 3)$

$= 8 + 6$

$= 14$

Quick Check

Choose the property:

$4 \bullet (8 \bullet 3) = (4 \bullet 8) \bullet 3$

A. Commutative
B. Associative
C. Distributive

Quick Check

Choose the property:

$5(6 + 4) = (5 \bullet 6) + (5 \bullet 4)$

A. Commutative

B. Associative

C. Distributive

Quick Check- 2 PARTS!

- What is the property being shown? What are the missing number(s) to the expression?

$$-5(6 + 9) = -30 + \_\_\_\_$$

A. Distributive, (-45)
B. Distributive, (6+9)
C. Associative, (-5 • 6) +9
D. Commutative, (9 + 6)

QUICK CHECK

$-8 + (4+2) = (-8 + \_\_\_) + 2$

A. 4

B. -4

C. 2

D. -8

QUICK CHECK

$-8 + (4+2) = (-8 + \_\_\_) + 2$

Now tell me which property we are using!

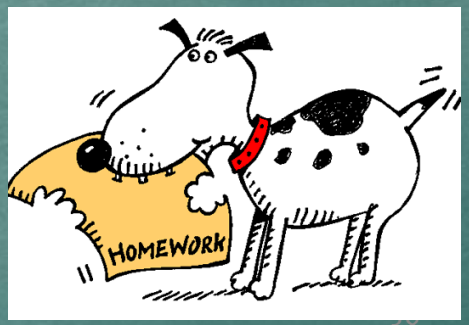
A. Commutative
B. Associative
C. Distributive

HOMEWORK

1) Review any OLS lessons from Unit 11 that you need more practice with.

2) STUDY STUDY STUDY!!!

3) Complete ANY missing Study Island Pathways and any additional missing work.



Have a Happy Day!