Math
Monday
1/9/16

Warm up:

Create a Frayer model for the word "Integer"

You may use your math text for the definition, but you need to determine examples, and non examples, as well as at least 3 characteristics.

You have 10 minutes!

Adding and Subtracting Integers

- Recap on the rules:
  - Helpful tools include using a number line to work out problems, or modeling with counter chips.
  - It is important to look at the value of the two integers. Which one is bigger? Which one is worth the most, and which is farthest from zero?
  - If you have two negatives, you'll most likely be adding them together to get another negative number
  - if you have two positives, you're probably also going to add.
  - If you have one positive and one negative, you are probably going to be looking for the difference between the two!

Multiplying and Dividing Integers

- Division and multiplication rules are the same
- A negative divided by a negative is still positive
  - — x — = +
  - or
  - — ÷ — = +
- A negative divided by a positive is negative
  - — x + = —
  - or
  - — ÷ + = —
- And a positive divided by a positive is still positive.
  - + ÷ + = +
  - + x + = +

Multiplying and Dividing Integers

- ONE MORE THING!
  - Two wrongs make a right…BUT ONLY IN MATH
    - So if you have two negative signs right next to eachother, connect the dots because they equal a plus sign!
    - like this!
      - -3 - (-3) =

Study guide for Integers Test

1) Be able to add and subtract integers. Study your previous work! Remember to also use your number line and counter chips if you need to!
   1) 3+4 =

   2) -4 -5 =

   3) -4 + 5 =

   4) -4 — (-4) =

2) Be able to multiply and divide integers, and know all of the rules!

   1) 3 x 4 =

   2) -4 x -5 =

   3) 5 x -6 =

   4) 5 ÷ -6 =

   5) -12 ÷ -3 =

   6) 55 ÷ 5 =

3) Be able to solve ANY of the word problems that we have talked about in the last couple of weeks…ESPECIALLY temperature questions! Use numberless to solve!!

Katherine is very interested in cryogenics (the science of very low temperatures). With the help of her science teacher she is doing an experiment on the affect of low temperatures on bacteria. She cools one sample of bacteria to a temperature of -51°C and another to -76°C. What was the temperature difference in the two experiments

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You owe $225 on your credit card. You make a $55 payment and then purchase $87 worth of clothes at Macy's. What is the integer that represents the balance owed on the credit card?

If it is -25F in St Paul, Minnesota and it is 75F in Honolulu, Hawaii, what is the temperature difference between the two cities?

It was a very freaky weather day. The temperature started out at 9°C in the morning and went to -13°C at noon. It stayed at that temperature for six hours and then rose 7°C. How far below the freezing point (0°C) was the temperature at 6 p.m.

A monkey sits on a limb that is 25 ft above the ground. He swings up 10 ft, climbs up 6 ft more then jumps down 13 ft. How far off the ground is the monkey now?

Mary has $267 in her checking account. She writes checks for $33, $65, and $112. What is the balance in her account now?

Math
Tuesday
1/10/16

Today we will be playing

Jeopardy!

In order to help you prepare for your test.

Math
Wednesday
1/11/16

Test day!

Clear your desk!

Math
Thursday
1/12/16

Today we are going to review the language of word problems.

Our goal is to be able to break down number sentences, and learn the math properties so that we can begin to use order of operations.

Key Words

- In word problems, they might tell you to **add** by using these key words…Lets see if you can brainstorm them before I reveal….
  - increased by
  - More than
  - combined
  - together
  - total of
  - sum
  - plus
  - added to.

Key Words

- Key words that mean Subtract
  - decreased by
  - minus, less
  - difference between/of
  - less than, fewer than

Key Words

- Key words that mean Multiply
  - of
  - times, multiplied by
  - product of
  - increased/decreased by a
  - factor of

Key Words

- Key words that mean divide
  - per
  - out of
  - ratio of, quotient of
  - percent (divide by 100)

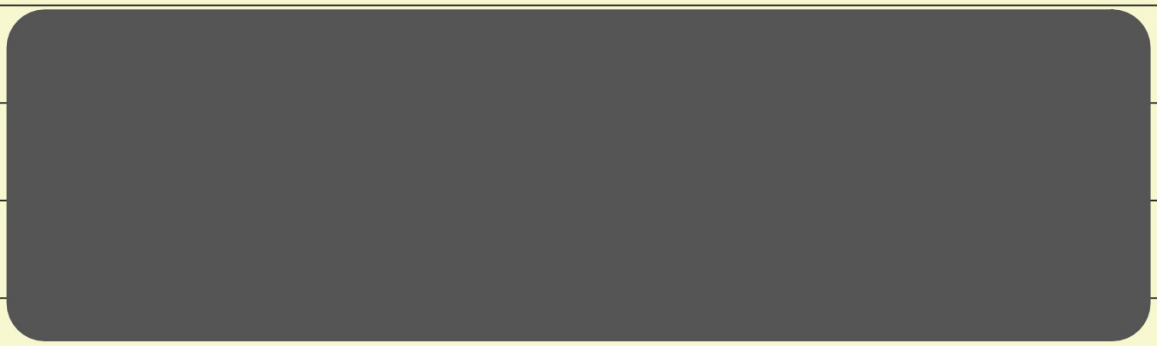
Key Words

- Words that mean “equals”
  - is, are, was, were, will be
  - gives, yields
  - sold for

Tips and Tricks

- Always gather pertinent information first.
- Read through the whole problem.
  - This one is important because it can be easy to just read the beginning of the problem and assume you know what its asking…when you really don't.
- Double check to make sure your answer makes sense with the question.
- Use problem solving strategies!
  - draw a picture, make a table, etc etc. Look on the bulletin board!

Today we are going to begin to learn about math properties.



There are 8 properties that you'll need to know

1.
2.
3.
4.
5.
6.
7.
8.

Math
Friday
1/13/16

Guess what! We're going to make a foldable that will go into our notebooks which defines and gives examples of each of the properties.

And more than one you have already worked with in math!