Do Now:

Replace each question mark with a < or >

/ less-than

2.) 4 ? 24



3.) 105 ? 103

4.) 89 ? 98

5.) 21 <u>?</u> 12

Sep 26-8:58 AM

2.1 Integers and Absolute Value

7.NS 7.EE

- SWBAT study integers by comparing and ordering them.
- SWBAT calculate the <u>opposite</u> and the absolute value of integers.

Calculators: No | and -1

Sep 26-9:27 AM

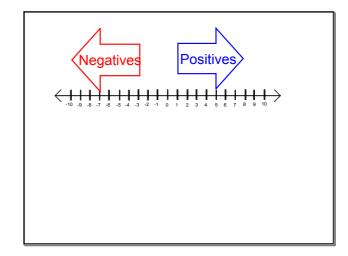
Integers - numbers such as ..., -3, -2, -1, 0, 1, 2, 3, ...

• Do not include decimals or fractions

Negative Integers - integers that are less than 0 such as ..., -3, -2, -1

Positive Integers - integers that are greater than 0 such as 1, 2, 3, ...

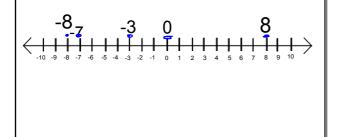
***Note: 0 is neither positive nor negative (neutral)



Sep 26-9:33 AM

Sep 18-7:12 AM

Use a number line to order the integers from least to greatest.



Without a number line, order the integers from least to greatest.

1. 9, -7, -11, 0, 13, 2 - 11, -7, 0, 2, 9, 13

2. -100, 3, 100, 18, -42, 101 -100, -42, 3, 16, 100, 101

smaller than -5	between -5 and 0	bigger than 0
-20 -6		10
-6	-3 -1 -3	1
_8 _	-2	7
-7		

Drag these into the correct column					
smaller than -5	between -5 and 0	bigger than 0			
	4-7				
-8+5 -1	-8+5 $-1+7$ $-3-7$ $10-(-2)$ $-6+4$				
-7-2 2+0 7+(6)					
$-1+6$ $\begin{array}{c} -2+0 & 7+(-0) \\ -20+18 & -3+(-40) & -6+4 \end{array}$					
	U T 10				

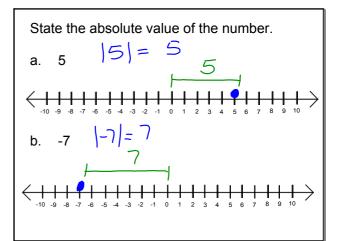
Compare integers

Compare integers

Absolute Value - the distance a number is from zero

- written symbolically as |a|
- distance is always a positive integer

Ex.) State the absolute value of the number.



Sep 18-7:18 AM

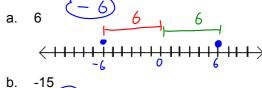
Sep 26-9:33 AM

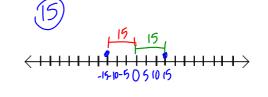
Opposites - two numbers have same absolute value but different signs

- always add up to be zero
- always a positive and a negative integer

Ex.) State the opposite of the number.

State the opposite of the number.





State the absolute value and the opposite of the number.

10.5

e.

d.

$$|0| = 0$$

Sep 18-7:21 AM

Match the integer expression with the verbal expression.



A. the opposite of negative twenty-one



B. the absolute value of twenty-one

- | -21 |

C. the opposite of the absolute value of negative twenty-one — [-21]

D. the absolute value of negative twenty-one

- (-21)

|21|

E. the opposite of the absolute value of twenty-one

Sep 22-8:45 AM

Simplify the expression.

3.
$$\int_{-2^{1}} |-2^{1}| = \left(-2\right)$$

4.
$$-(-21) = (-1)(-21) = (-1)$$

Use the table below. It shows the distances of the runners from the finish line when the winner won the race.

Runner	Distance (ft)
Payton	-8
Fidel	0
Omarian	-14
Jahmire	-22
Jaquaan	-2

a. Who won the race?

b. Who finished farther back, Payton or Jahmire?

c. Arrange the names in order from first place to last place.

Sep 18-7:22 AM

Sep 22-8:56 AM

"Don't blame the sea if you cannot catch a fish."

Working individually or with a partner, complete the classwork.

pg. 55-56 #8-35 all



Reflection of Today's Lesson

2.1 Integers and Absolute Value

7.NS

• SWBAT study integers by comparing and ordering \ them.

• SWBAT calculate the opposite and the absolute value of integers.



Sep 18-7:22 AM