The Philomath Club

Integers

Reviewing what integers are









Integers: It is a positive or a negative whole number. Like, -3, -2, -1, 0, 1, 2, 3, 4,...

Number line

Let's learn some properties of Number line





What is a number line

A number line is the visual representation of the numbers!



Numbers in a number line

Numbers on the left side is smaller than the number in the right side.

Example:

8 is greater than 5

8 is smaller than 11

-5 is greater than -7

-5 is smaller than -1

-4 is smaller than 1

0 is greater than -10



More in number line

I am currently at -3. Now add I step. Where am I?

I am currently at 0. Now add -1 step. Where am I? am currently at -5. Now subtract 1 step. Where am



Competition Time!





Integer Operations

There are 4 integer operations!

Addition +

Subtraction -

Multiplication x

Division ÷



Rules with bracket

We use brackets to not get confused.

For example: +(5)=5

-(6)=-6

(-10)=-10

There are some rules with brackets:



Examples

- + (-1) = -1
- (-100) = 100
- (20)=-20 - (200)=200 + (0)=0

- (O)=O

+ (+ 29)=29





When there is no sign then it's +

Example:



Competition time





Same signs —> add

What is 5 + 1?

5 + 1 = 6

What is -5 -1?

Let's go to the number line!

What is -6 + 2?

Let's go to the number line!

What is -6 +(-1)?

Let's go to the number line!



Some quick solves

-] + (-]) = -2 + 2= 4 - 4 = -8 -8 = 10 + 10 = -18-11-8 = 14 + (14) = 100 -(- 10)=





Competition Time



Multiplication and Division in integers

We use the same rules









Competition Time







When all the operations are together, we actually value some operations more than other

Try out this: 1 x (5 + 5) / 25 - 10 That's why we need BODMAS!

Example 1+ 2(-3+ 2)/-1 =





Competition Time

