

What's Going On?

Checking In

Some Reminders

Minds on

The Sum of All Fingers

Action!

Back to Basics

Consolidation

Mastering Integers

Learning Goal - I will be comfortable with basic integer addition, subtraction, multiplication and division.

Checking In

Required Materials

By next Monday you need to have

- a pencil
- paper
- a ruler
- a SEPARATE binder for this course
- a SCIENTIFIC CALCULATOR

EVERY DAY

Checking In

Course Website

gilbertmath.com

All lessons

Assignments

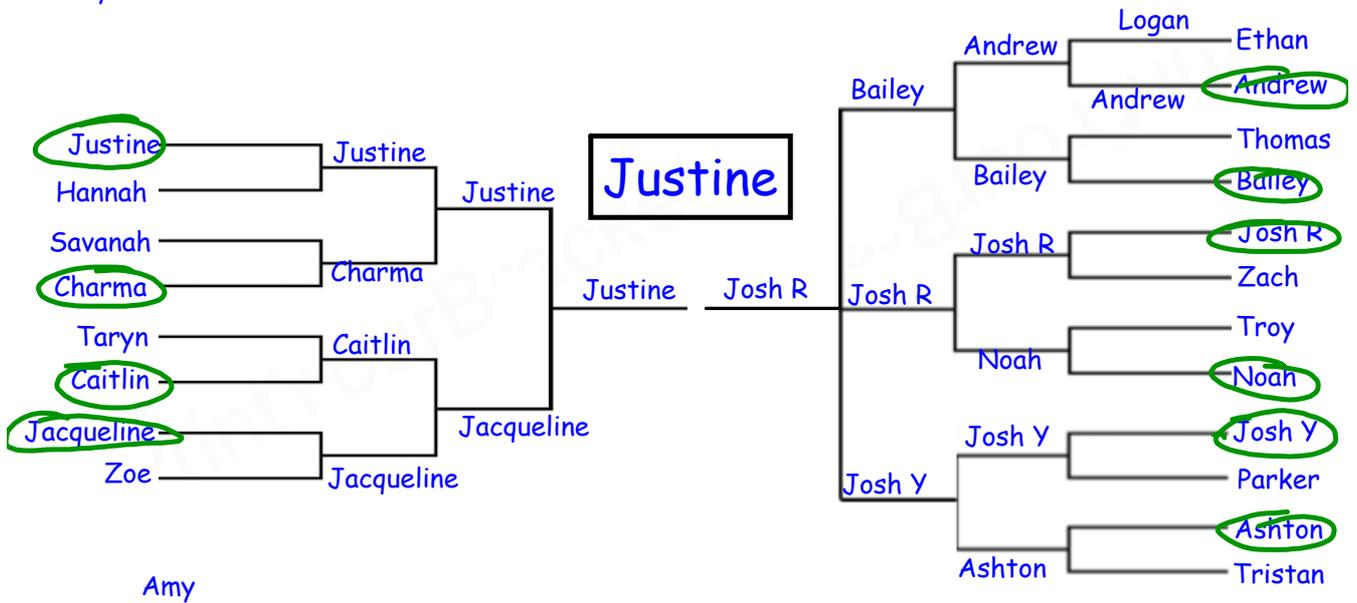
Important Dates

[Course Overview](#)

Minds on

The Sum of All Fingers

Krysta-Lea



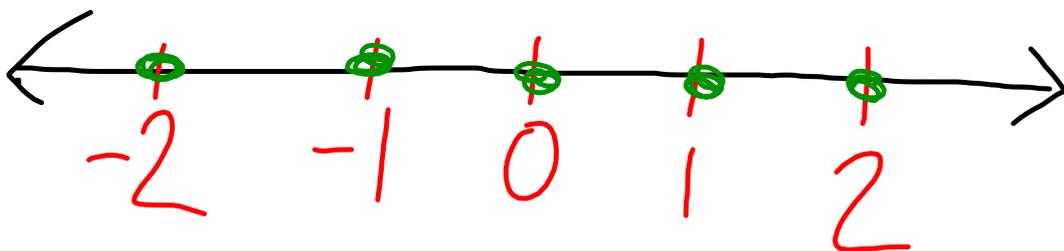
Action!

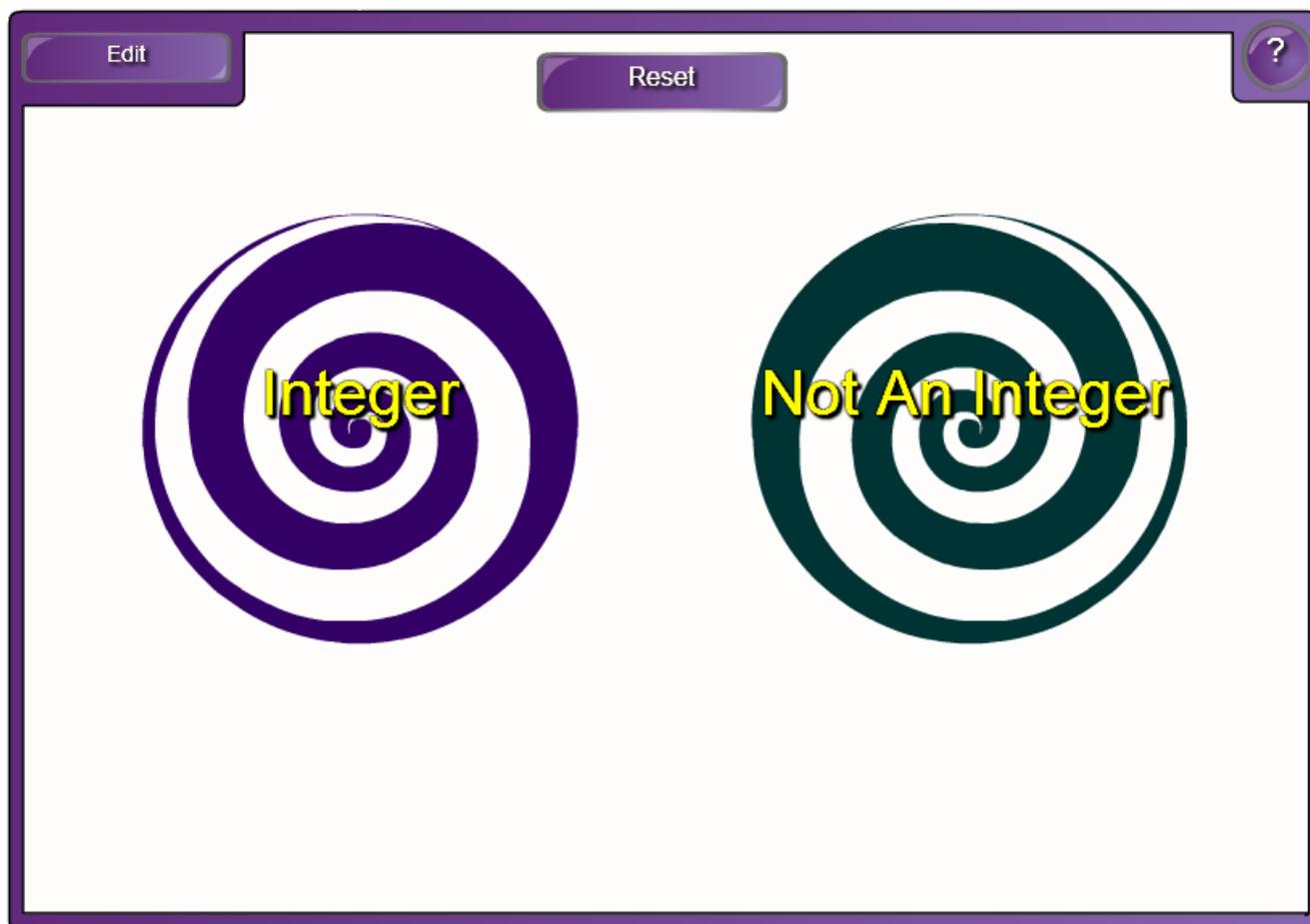
Back to Basics

Integers

Integers are just positive and negative whole numbers, *and zero.*

Vortex!





Action!

Back to Basics

Adding a positive integer

We just did this! It's addition.

This is elementary (school).

First get rid of brackets!

$$\begin{aligned} 5 + (+2) \\ = 5 + 2 \\ = 7 \end{aligned}$$

$$\begin{aligned} -7 + (+5) \\ = -7 + 5 \\ = -2 \end{aligned}$$

$$\begin{aligned} -8 + (+12) \\ = -8 + 12 \\ = 4 \end{aligned}$$

Whiteboard Practice!

Action!

Back to Basics

Subtracting a positive integer

It's just subtraction!

This is also elementary (school).

First get rid of brackets.

$9 - (+4)$	$6 - (+7)$	$-8 - (+6)$
$= 9 - 4$	$= 6 - 7$	$= -8 - 6$
$= 5$	$= -1$	$= -14$

Whiteboard Practice!

Action!

Back to Basics

Adding a negative integer

It's also just subtraction!

First get rid of brackets.

$9 + (-4)$	$6 + (-7)$	$-8 + (-6)$
$= 9 - 4$	$= 6 - 7$	$= -8 - 6$
$= 5$	$= -1$	$= -14$

Whiteboard Practice!

Subtracting a positive integer

AND

Adding a negative integer

are the exact same thing!

Action!

Back to Basics

Subtracting a negative integer

It's actually addition!

Think about a witches brew...

Action!

Subtracting a negative integer

Imagine the cauldron is filled with

- fire balls (positive) 
- ice cubes (negative) 

If I remove (subtract) an ice cube (negative),

the temperature in the cauldron goes UP.



Action!

Back to Basics

Subtracting a negative integer

First get rid of brackets. Then just add!

$7 - (-4)$	$-8 - (-2)$	$-3 - (-9)$
$= 7 + 4$	$= -8 + 2$	$= -3 + 9$
$= 11$	$= -6$	$= +6$

Whiteboard Practice!

Action!

Back to Basics

Adding and Subtracting several integers

The rule: First get rid of brackets.

Then, Add and subtract from left to right.

(Just like reading!)

$$5 + (-1) - (-10)$$

$$= 5 - 1 + 10$$

$$= 4 + 10$$

$$= 14$$

-Logan

$$\begin{aligned} & 7 + (+2) - (+6) - (-3) + (-4) \\ & = 7 + 2 - 6 + 3 - 4 \\ & = 9 - 6 + 3 - 4 \\ & = 3 + 3 - 4 \\ & = 6 - 4 \\ & = 2 \end{aligned}$$

-Hannah