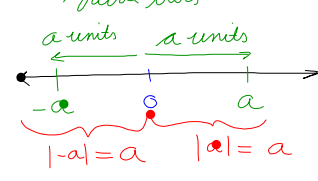



September 1, 2017
 * Friday - Wednesday

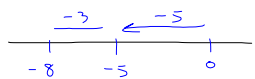
Sep 1-9:51 AM

CORE 1.1
 Absolute Value ($a < b$)
 $|a|$ → the positive distance from zero.
 absolute value bars


Sep 1-10:19 AM

Formal Def. of Absolute Value
 $|x| = \begin{cases} x, & \text{if } x \geq 0 \\ -x, & \text{if } x < 0 \end{cases}$
 $x \in \mathbb{R}$
 $x = -5$ so, $|-5| = -(-5) = 5$


Sep 1-10:24 AM

Addition of Integers
 ① Same "sign"
 $(+) + (+) = +$
 $5 + 3 = +8$
 $(-) + (-) = -$
 $-5 + (-3) = -8$
 $-5 - 3 = -8$


Sep 1-10:28 AM

② Different "signs"
 $(+) + (-) =$ Subtract the smaller a 's value from the larger & keep the "sign" of the larger.
 $5 + (-3) = 5 - 3 = 2$
 $|5| > |3|$
 $5 - 3 = 2$
 $-12 + 3$
 $|-12| > |3|$
 $12 - 3 = -9$

Sep 1-10:32 AM

Commutative Property
 "+" $a + b = b + a$
 "x" $a \times b = b \times a$
 Key: order changes, but the result is the same.
 $5 + 3 = 3 + 5$
 $8 = 8$

Sep 1-10:36 AM

Associative Property

"+" $a+(b+c) = (a+b)+c$

"x" $a \times (b \times c) = (a \times b) \times c$

$$a(bc) = (ab)c$$

Key: *association changes, the result is the same.*

$$2 + (3 + 4) = (2 + 3) + 4$$

$$2 + 7 = 5 + 4$$

$$9 = 9 \checkmark$$

Sep 1-10:40 AM

① $5 + (2y + 4)$

unlike terms

Goal: is to associate the 5 + 4

② $5 + (4 + 2y)$ *Comm.*

③ $(5 + 4) + 2y$ *assoc.*

④ $9 + 2y$ *Combine like terms*

Sep 1-10:43 AM