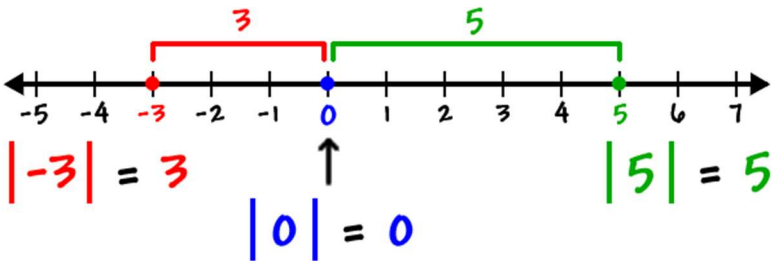
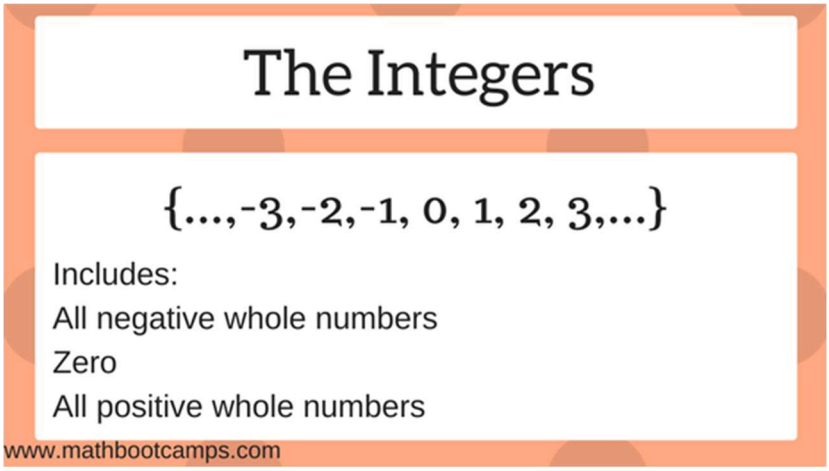
Absolute Value

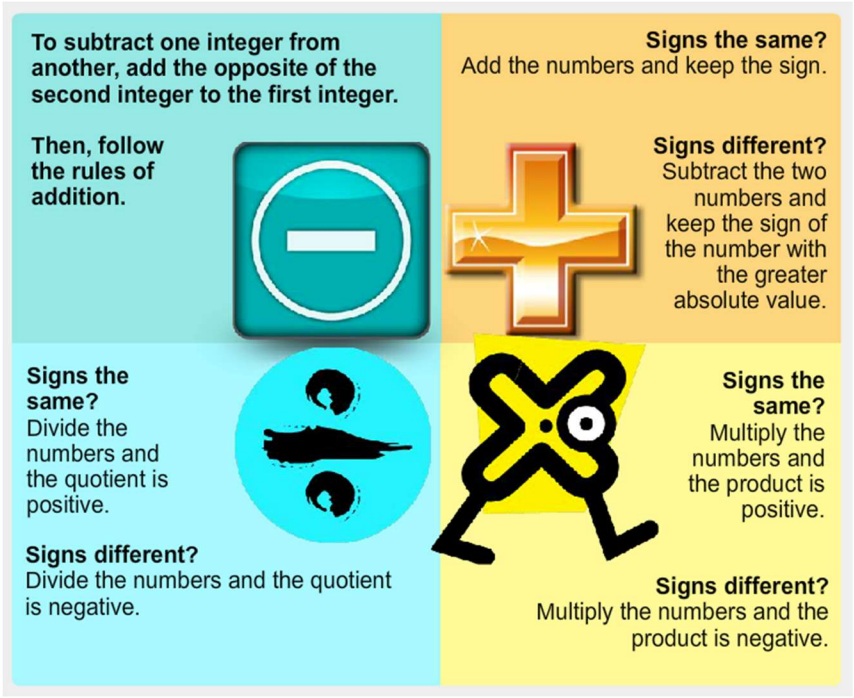
How far a number is from zero or the distance from zero



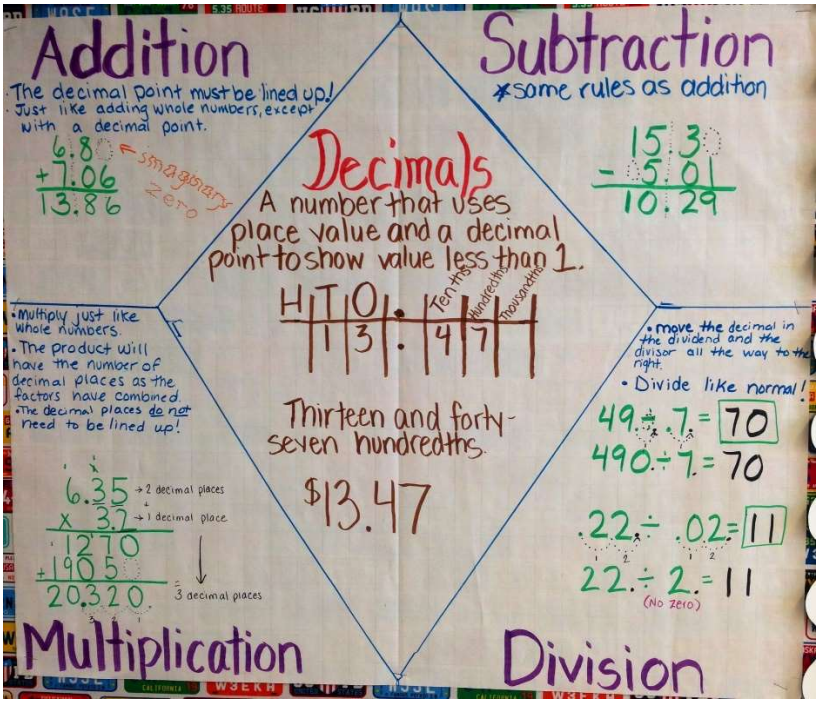
Integers

Remember, Integers are numbers that are:

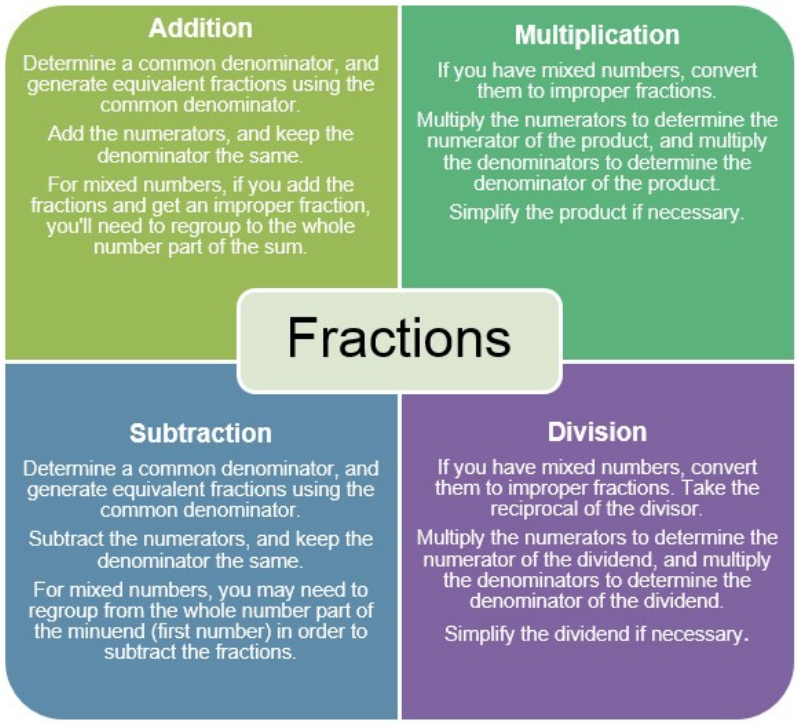




Decimals



Fractions



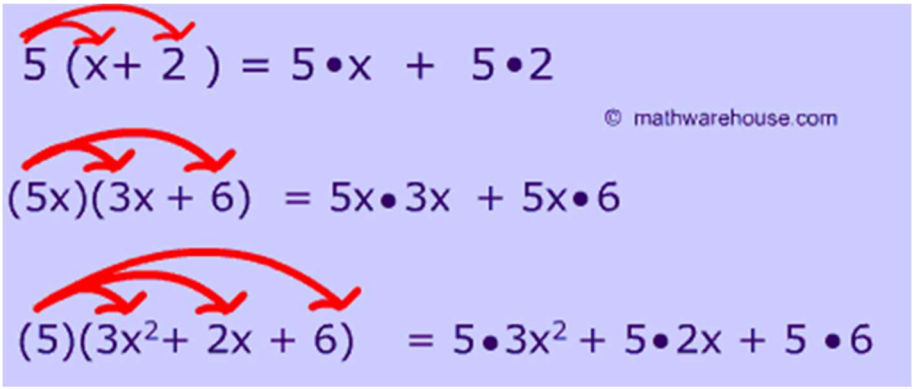
Addition: ½ + ¼ = 2/4 + ¼ = ¾ **Subtraction:** ½ - ¼ = 2/4 – ¼ = ¼

Multiplication: ½ · ¼ = 1/8 **Division:** ½ ÷ ¼ = ½ · 4/1 = 4/2 = 2

Properties of Integers

Property	Description	Example
Commutative Property of Addition	Changing the order does not change the sum	$2 + 5 = 5 + 2$
Commutative Property of Multiplication	Changing the order does not change the product	$-3 \cdot 8 = 8 \cdot (-3)$
Associative Property of Addition	Changing the grouping does not change the sum	$(1 + 2) + 3 = 1 + (2 + 3)$
Associative Property of Multiplication	Changing the grouping does not change the product	$(1 \cdot 3) \cdot 5 = 1 \cdot (3 \cdot 5)$
Distributive Property	Multiplying the term on the outside of the parenthesis to each term on the inside of the parenthesis	$2(-4 + x) = (-8) + 2x$ Or $2(4 - x) = 2 \cdot 8 + 2 \cdot x$
Inverse Property of Addition	The sum of any integer and its additive inverse is 0	$6 + (-6) = 0$

Distributive Property



Combining Like Terms