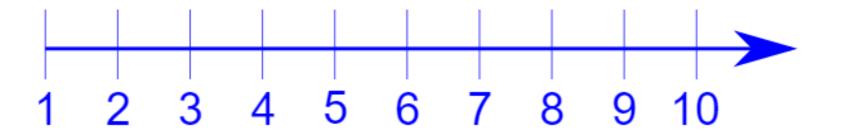
Grade 7 Unit 1 Vocabulary

Numbers and Operations

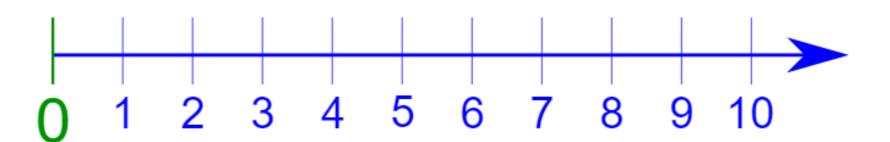
7.2A, 7.3A, 7.3B Counting (natural) numbers — The set of positive numbers that begins at one and increases by increments of one each time. {1, 2, 3, ..., n}.

The numbers you say when you count.



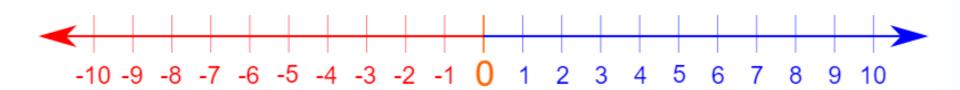
Whole numbers — The set of counting (natural) numbers and zero $\{0, 1, 2, 3, ..., n\}$.

The numbers you say when you count and zero.



Integers – The set of counting (natural numbers), their opposites, and zero $\{-n, ..., -3, -2, -1, 0, 1, 2, 3, ..., n\}$.

Positive and negative numbers.



<u>Rational numbers</u>—The set of numbers that can be expressed as a fraction a/b, where a and b are integers and $b \neq 0$.

Integers, Fractions, and Terminating & Repeating Decimals

Rational Number

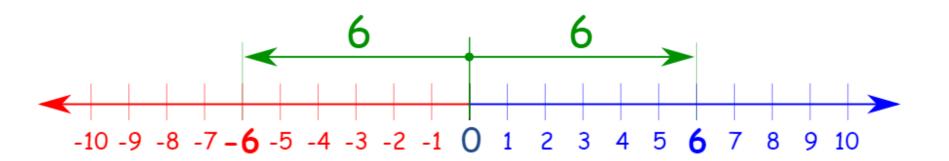
numbers that can be written in the form $\frac{a}{b}$

Examples:

$$\frac{3}{5}$$
 -2 $\frac{1}{6}$ 8.25

<u>Absolute Value</u> — A numbers distance from zero on the number line. It is ALWAYS a positive number.

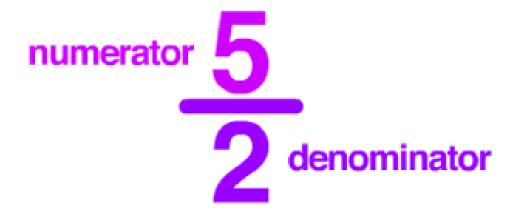
A numbers distance from zero.



$$|-3|=3$$

Improper Fraction— A fraction equivalent to or larger than one whole. The numerator is larger than or equal to the denominator.

Fraction with a bigger number on top.



<u>Mixed Number</u> — A whole number and a fraction combined into one "mixed" number.

Number with a fraction

3 4/5

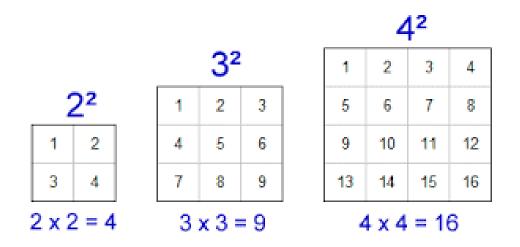
Reciprocal — A number related to another in such a way that when these two numbers are multiplied together their product is 1.

When we FLIP the 2nd fraction in a division problem



Square Number — A number which can be represented in the shape of a square. A number that results from multiplying an integer by itself.

Multiplying a number by itself. Using an exponent of 2.



Square Root— A value that, when multiplied by itself, gives the number.

Opposite of squaring a number.

The symbol is √

$$\sqrt{4} = 2$$

$$\sqrt{9} = 3$$

$$\sqrt{16} = 4$$