Name: _____

Guided notes 1a: Number Concepts

A SET is ….

All of the numbers that we use are _____. (Yes, there are imaginary numbers.)

Natural numbers are …	Whole numbers are …	Integers are …
AKA Examples:	Examples:	Examples:

Rational numbers are anything that can be written as a _____ or_____ or_____ Examples:	Irrational numbers CANNOT be written as a _____. They include _____ and some famous constants, such as _____ and _____ Examples:

To compare rational numbers, we can use a few methods:

Inspection: _____

e.g.,

Common denominator: Use if you have two _____

e.g.,

Convert to decimals: Use if you have _____

e.g.,

Which number is larger -

11/5   or   43/20 ?

4/5   or   0.82   ?

$6.\overline{4}$ or $\sqrt{40}$?

Tips for drawing a number line:

- Always use a _____

- When in doubt, put _____ in the middle

- _____ go on both ends of the line

Put the following numbers in order on the number line: 0.5, 4/3, $\sqrt{6}$, $1.\overline{6}$