

1-1: Real Numbers and Their Graphs

OBJECTIVES:

- 1) Graph and compare real numbers on a number line.
- 2) Find absolute values

REAL NUMBERS:

Natural:

Whole:

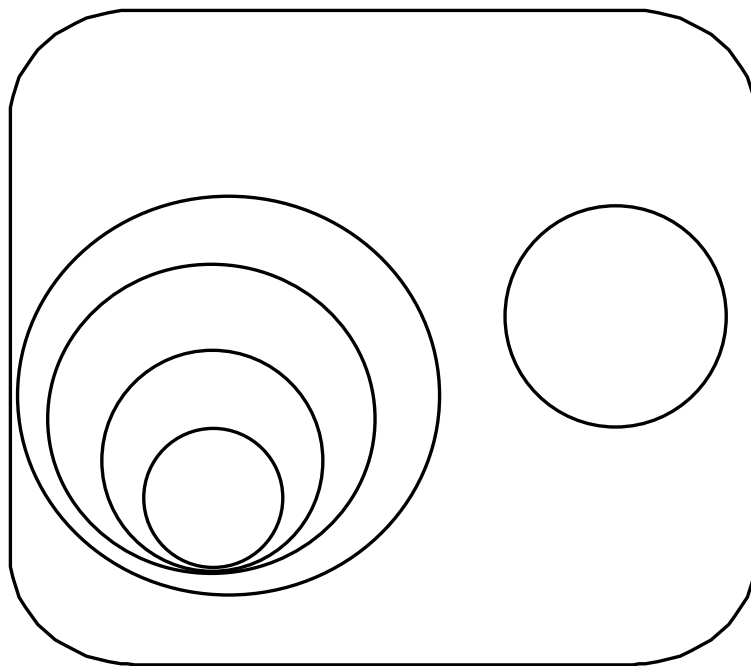
Integer:

Rational:

Irrational:

Fill in the Venn Diagram with the following:

- Real, Natural, Whole, Integer, Rational, Irrational



Now try:

100, -7, $\frac{4}{5}$, 0, -3.2

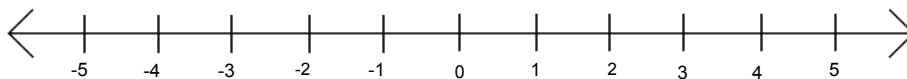
For each number, put a check (✓) in the classification(s) it belongs to.

	Natural	Whole	Integer	Rational	Irrational	Real
7	X	X	X	X		X
0		X	X	X		X
-2/5				X		X
-12			X	X		X

NUMBER LINES: Definitions and application

Coordinate: the real number paired with a point

Graph: the point paired with the real number



EX: the coordinate of point Q is 5

EX: the graph of -3 is point R

EX: the ORIGIN is point O

EX: find the coordinate of the point one-fourth of the way from R to Q

EX: find the coordinates of two points that are 3 units from -1.

REVIEW OF INEQUALITIES:

How do we read the following statements?

$$0 > -7$$

$$-7 < 0$$

TRUE OR FALSE:

$$-2 > -1$$

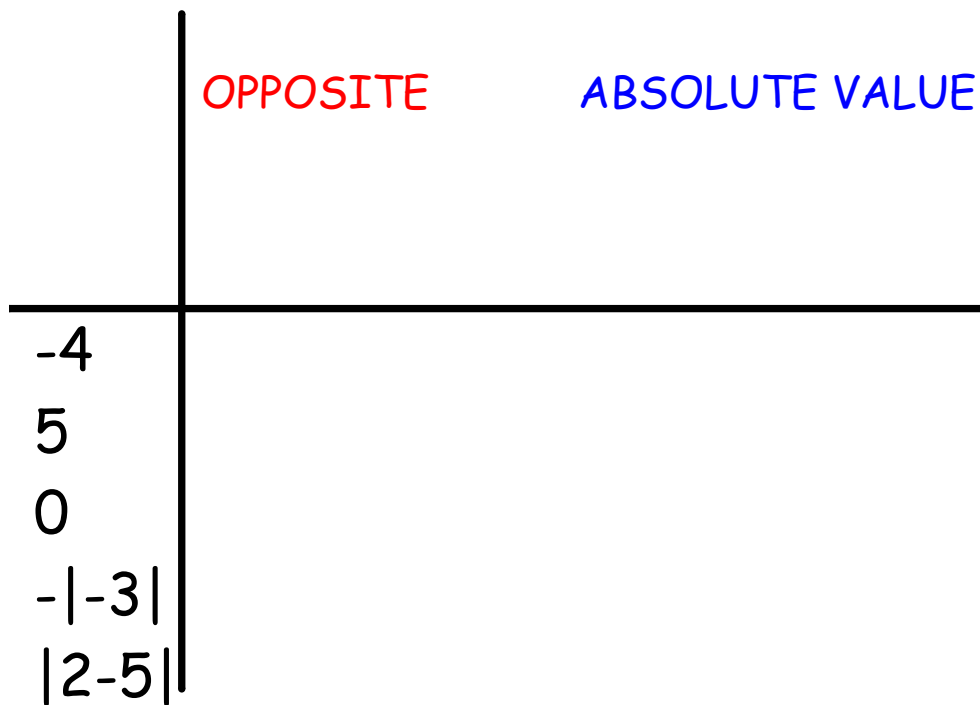
$$0 < 13$$

$$-1/2 > -3/5$$

Write an inequality for:

1) Negative three is less than twelve

2) Four is greater than one-third



HOMEWORK- Check answers in back...

Pages 4-5: 5, 7, 9, 13, 19, 21, 23, 25, 29, 35, 39