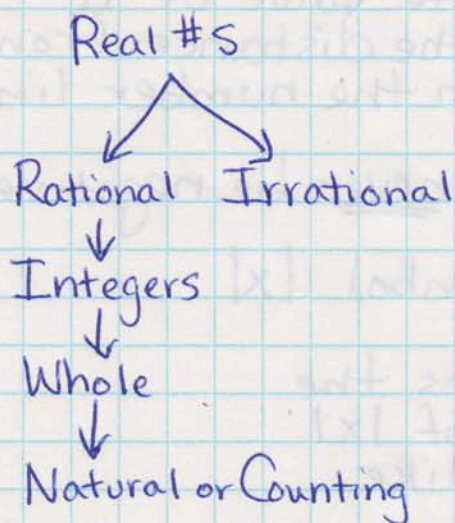


## 2.1 Real Numbers and Absolute Value



Rational #s can be expressed as  $\frac{a}{b}$ , where  $b \neq 0$   
~~to~~ Most terminate or repeat

Integers - Set of all positive and negative whole numbers

Whole #s - Counting numbers and zero

Counting #s - Numbers that you count with 1, 2, 3, 4, 5, ...

### Class Activity:

Create a file system on your desk top that demonstrates the hierarchy of numbers

Create Folder (Real Numbers)

Inside create 2 new folders (Rational) (Irrational)

Inside each, create document with examples.

Then create files (Natural) (Whole) (Integer) with examples of each in a document

Put (Natural) inside (Whole). (Whole) inside (Integer) and then (Integer) inside (Rational)

### Ordering Numbers

$>$  greater than  
 $<$  less than  
 $=$  equal to

$\geq$  greater than or equal to  
 $\leq$  less than or equal to.

### Opposites

Change sign

Ex: 3, -3

$2+5$ ,  $-(2+5)$