

Name: _____

Date: _____

Aim: How can we review the properties of numbers?

DONOW:

Copy the definition for the real numbers.

Real Numbers: _____

What is the difference between a rational number and an irrational number?

THE RATIONAL NUMBERS

Natural Numbers: _____

WhOle Numbers: _____

Integers: _____

Rational Numbers: _____

This means that all of the following are rational:

natural numbers	fractions
whOle numbers	repeating decimals
integers	terminating decimals

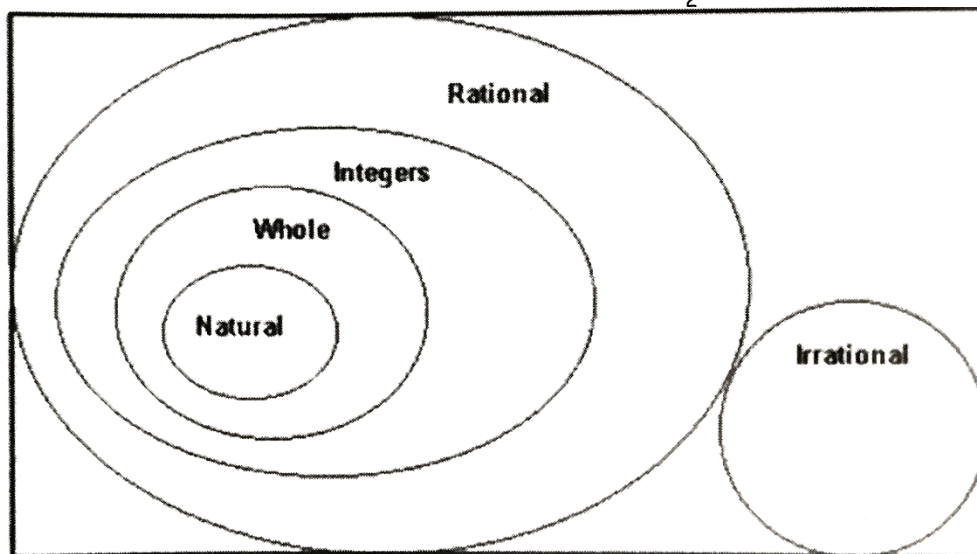
THE IRRATIONAL NUMBERS

Irrational Numbers: _____

One way to represent the real number system is in a Venn Diagram like the one shown below.

1) Place the numbers in the smallest set that they belong to.

0.002 -22 8 -3.5 $0.\bar{3}$ $\sqrt{16}$ $1\frac{1}{2}$ $\sqrt{18}$ 0 π



In questions 2 - 7, choose between Rational, Integer, Whole, Natural, or Irrational (some answers may include more than one!)

2) What kind of number is -5?

3) What kind of number is 42?

4) What kind of number is -4.5669?

5) What kind of number is most useful to describe your shoe size?

6) What kind of a number is most useful to describe the temperature?

7) What kind of number is most useful to describe the number of siblings a person has?

8) True/False: Every Square root is an irrational number.

9) True/False: Every rational number is also an integer.

10) True/False: Every integer is also a rational number.

11) True/False: Every whole number is also a natural number.

12) True/False: Every natural number is also a rational number.

13.) True/False: Every negative number is also an integer.



All numbers in this class can be classified using one of the

_____.