

# Classifying Real Numbers Practice

Name: \_\_\_\_\_

- A. For the following numbers, classify as to which subset(s) of real numbers each belongs. Choose from the following subsets of real numbers (more than one may apply):

**Rational Numbers, Irrational Numbers, Integers, Whole Numbers, or Natural Numbers**

1) -5

\_\_\_\_\_

2)  $\frac{2}{3}$

\_\_\_\_\_

3) -5.6

\_\_\_\_\_

4) 8

\_\_\_\_\_

5)  $\frac{-25}{75}$

\_\_\_\_\_

6) 0

\_\_\_\_\_

7)  $\frac{-15}{5}$

\_\_\_\_\_

8)  $\sqrt{7}$

\_\_\_\_\_

9)  $\pi$

\_\_\_\_\_

- B. Choose one subset of real numbers that is the most reasonable for each of the following:

10) The number of oranges on a tree. \_\_\_\_\_

11) The temperature in the weather report. \_\_\_\_\_

12) The number of seats on a bus. \_\_\_\_\_

- C. Determine if the following statements are true or false? Circle true or false. If false, give a counterexample.

13) All integers are rational numbers. **TRUE** or **FALSE**

14) The absolute value of the number is always greater than the number. **TRUE** or **FALSE**

15) Natural numbers, whole numbers and integers are all rational numbers. **TRUE** or **FALSE**



Classify each number as Rational or Irrational

1)  $\frac{11}{6}$

2) 0

3)  $\frac{20}{9}$

4) -11

5)  $\sqrt{28}$

6) 0.34

7) -2

8)  $\sqrt{2}$

9) 0.565656...

10) -12

11) 3.14

12)  $\sqrt{0}$

13) 0.3333333333...

14)  $\frac{63}{108}$

15)  $\frac{0}{5}$

16) 3

17)  $\sqrt{49}$

18)  $\pi$

19)  $\frac{-176}{-4}$

20)  $-\sqrt{121}$