Name	Date
Mr Tallman	Math 7

Homework # 11 – Sets of Numbers & Rational vs Irrational

1) Matching Column: Match each set of numbers with the appropriate definition or list of numbers. Write a CAPITAL letter next to each set of numbers to indicate your choice.

- Irrational Numbers ______
- A) {....-4, -3, -2, -1, 0, 1, 2, 3, 4,...}

• Integers _____

- B) {0, 1, 2, 3, 4, 5,}
- Rational Numbers _____
- C) Whole numbers excluding zero.
- Whole Numbers ______
- D) Numbers that have non repeating or non-terminating decimals.
- Natural (Counting) Numbers
- E) Numbers that can be written as fractions and/or terminating or repeating decimals.
- 2) True or False: The set of irrational numbers is a subset of the set of real numbers. _____
- 3) True or False: The number $\frac{1}{2}$ is an integer. ______.

For each example, circle whether the number is rational or irrational. Be sure to explain your choice.

4)	$\frac{1}{2}$ Rational	Irrational	5)	9	Rational	Irrational
6)	2.35 Rational	Irrational	7)	-2π	Rational	Irrational
8)	76.19375638502		9) -	8.65656	55 Rational	Irrational
Rational Irrational						

True or False

- 11) The number $\sqrt{12}$ is rational.
- 12) Irrational numbers can be expressed as fractions.
- 13) The number $5\frac{3}{13}$ is rational. _____
- 14) The number -4.23487801275709 is irrational. _____