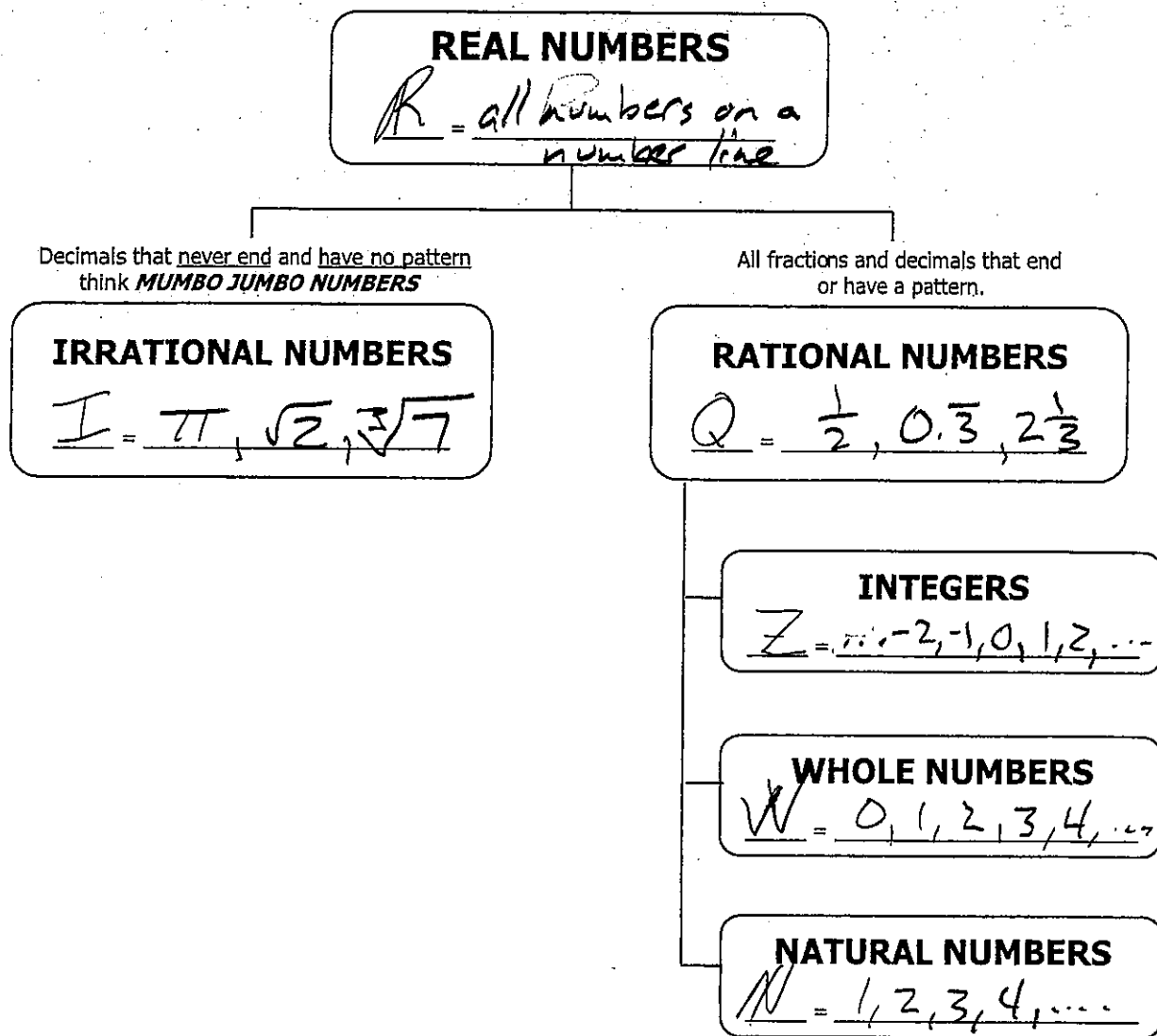


# The Real Number System



**Directions:** Name all sets of numbers to which each number belongs.

1. 30 Natural  
 Whole  
 Integers  
 Rational

2. -11 Rational  
 Integers

3.  $5\frac{4}{7}$  Rational

4.  $\sqrt{21}$  Irrational

5. 0 Rational  
 Integers  
 Whole

6.  $-\sqrt{9}$  Rational  
 Integers

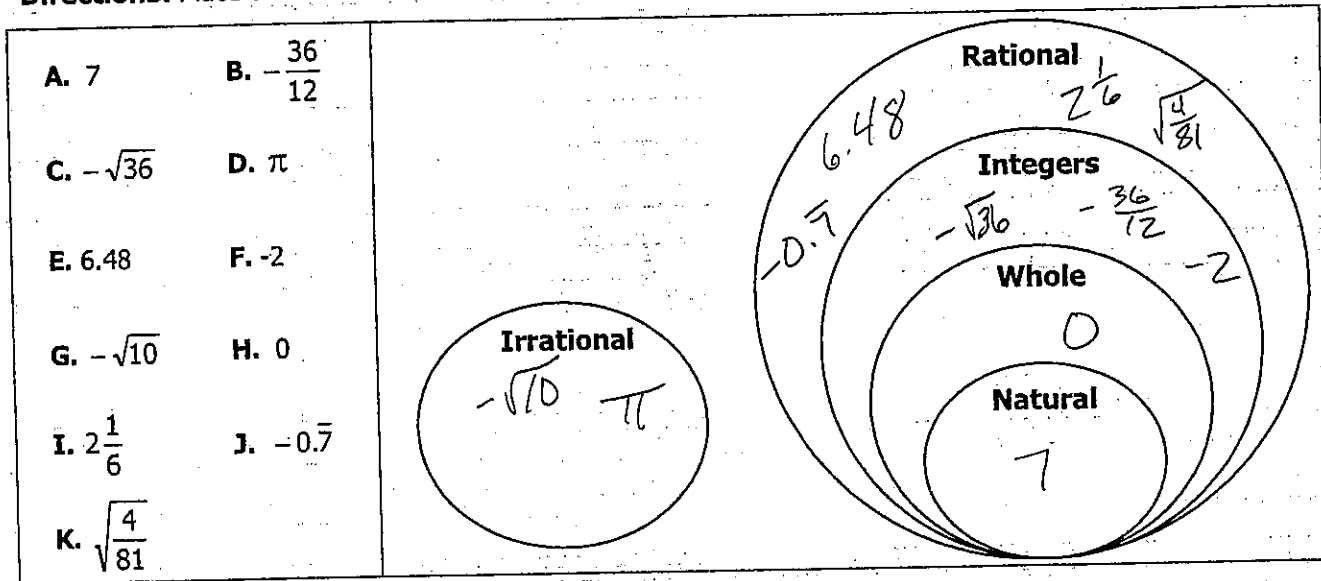
7.  $\frac{6}{3}$  Rational  
 Integers  
 Whole  
 Natural

8.  $\pi$  Irrational

9.  $5\bar{3}$  Rational

# Organizing the Real Numbers

Directions: Place the LETTER of each value in its location in the real number system below.



1. Which expression does **not** name an integer?

A. -15

C. 0

B.  $\frac{6}{14}$

D.  $\frac{12}{6}$

2. Which expression represents an irrational number?

A.  $0.\overline{18}$

C.  $\frac{2}{3}$

B.  $\sqrt{75}$

D.  $\sqrt{3} - \sqrt{3}$

3. Which number is **not** a whole number?

A. 8

C. 0

B. -10

D.  $\frac{18}{3}$

4. Which of the following is a true statement?

A. -9 is a whole number

C. 0 is a natural number

B.  $\sqrt{25}$  is an irrational number

D.  $\frac{2}{3}$  is a rational number

5. Which of the following statements is false?

A. All real numbers are rational numbers.

C. All natural numbers are integers.

B. Every integer is a rational number.

D. Every whole number is a real number.

6. Give an example of a number that is a whole number, but not a natural number. 0

7. Give an example of a real number that is not rational.  $\pi$

8. Give an example of a rational number that is not an integer.  $-\frac{2}{3}$