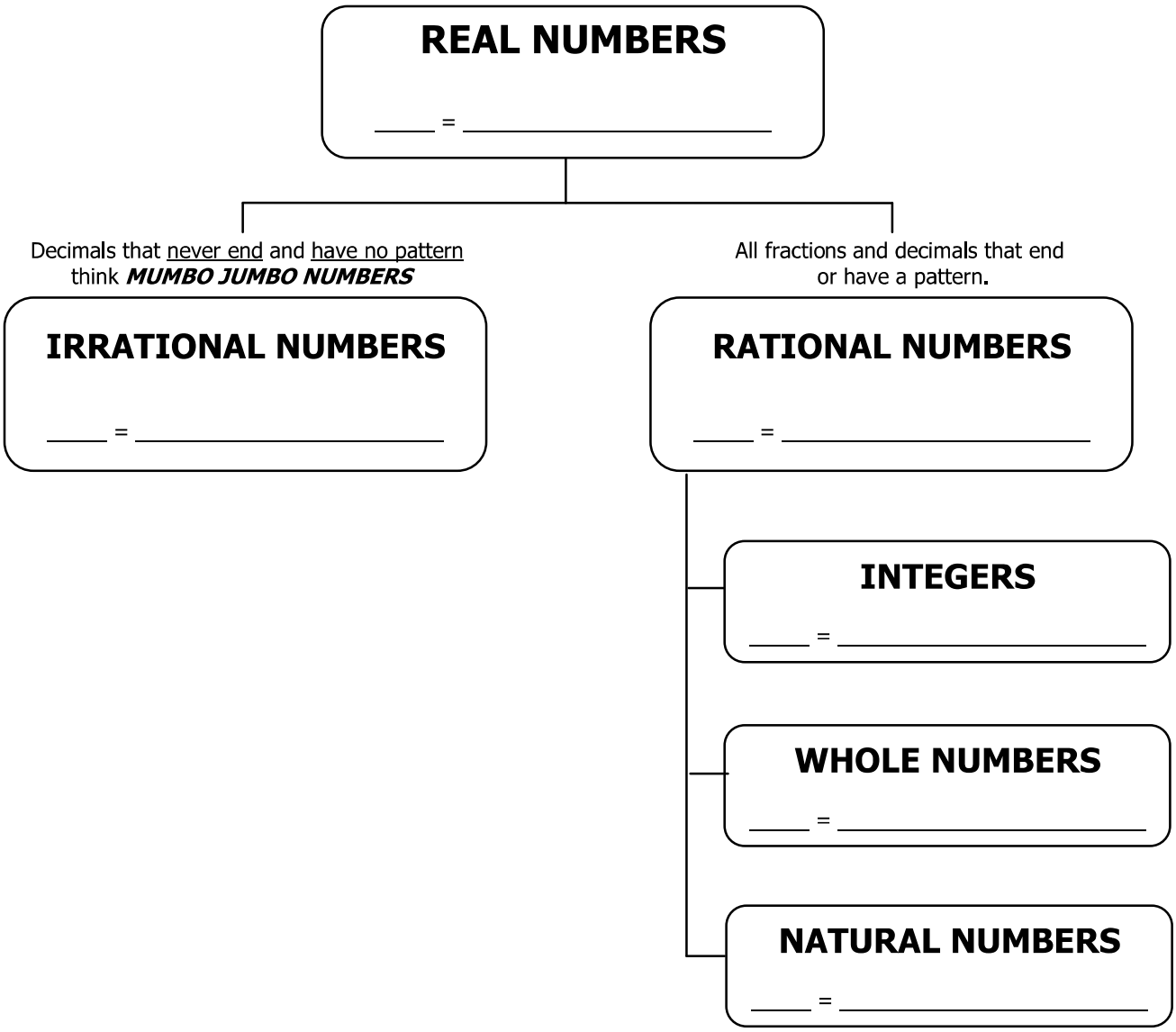
The Real Number System



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

1. 30

2. -11

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

4. $\sqrt{21}$

5. 0

6. $-\sqrt{9}$

7. $\frac{6}{3}$

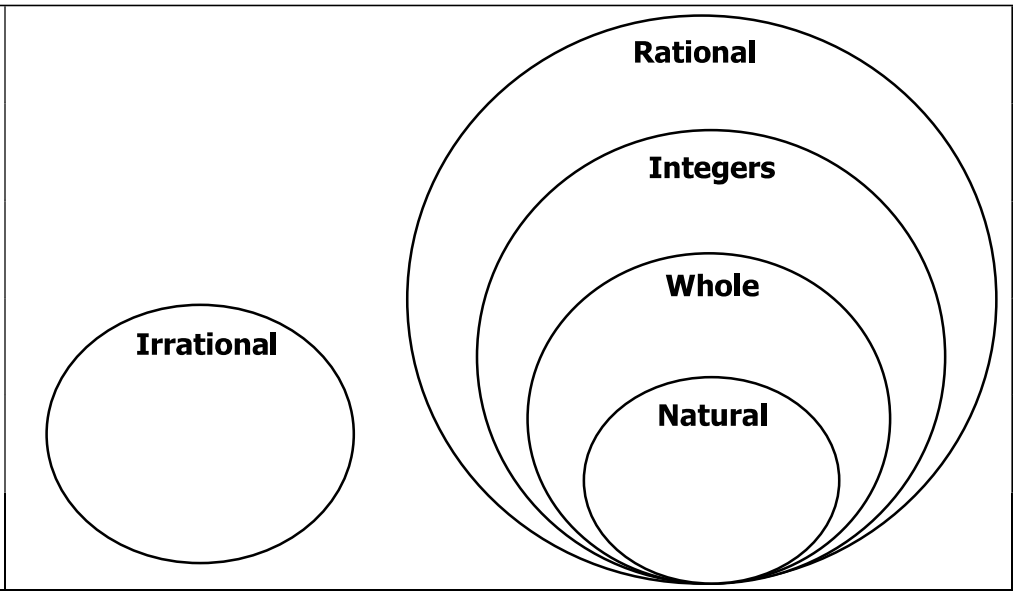
8. π

9. $5.\overline{3}$

Organizing the Real Numbers

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

A. 7	**B.** $-\frac{36}{12}$
C. $-\sqrt{36}$	**D.** π
E. 6.48	**F.** -2
G. $-\sqrt{10}$	**H.** 0
I. $2\frac{1}{6}$	**J.** $-0.\overline{7}$
K. $\sqrt{\frac{4}{81}}$	



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. _____

7. Give an example of a real number that is not rational. _____

8. Give an example of a rational number that is not an integer. _____