

# Numbers

## NATURAL NUMBERS

{1, 2, 3, 4, 5, ...}

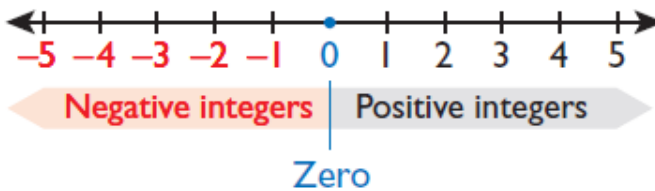
## WHOLE NUMBERS

{0, 1, 2, 3, 4, ...}

## INTEGERS

{..., -3, -2, -1, 0, 1, 2, ...}

### The Number Line



## RATIONAL NUMBERS

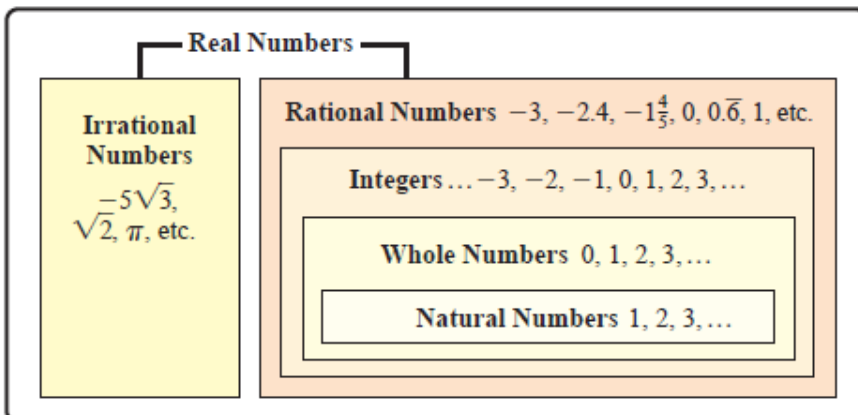
All numbers that can be written in the form  $a/b$ , where  $a$  and  $b$  are integers and  $b \neq 0$ .

## IRRATIONAL NUMBERS

Real numbers that cannot be written as the quotient of two integers but can be represented on the number line.

## REAL NUMBERS

Include all numbers that can be represented on the number line, that is, all rational and irrational numbers.



# Numbers

## PRIME NUMBERS

A prime number is a number greater than 1 that has only itself and 1 as factors.

*Some examples:*

2, 3, and 7 are prime numbers.

## COMPOSITE NUMBERS

A composite number is a number that is not prime. *For example*, 8 is a composite number since

$$8 = 2 \cdot 2 \cdot 2 = 2^3.$$