

**Answer these questions:**

**1. Which of the following numbers is natural number?**

- A. 3.06                      B. 5                              C. 712                          D. 0

**2. The number -10 is a:**

- A. natural number    B. whole number    C. integer                      D. rational number

**3. Which of the following numbers is a natural number?**

- A. 4                              B. 5                              C. - 3                              D. 3.9

**4. Which of the following answers are natural numbers?**

- A.  $59 \div 4$                       B.  $58 \div 5$                       C.  $54 \div 3$                       D.  $46 \div 7$

**5. Which of the following answers are natural numbers?**

- A.  $87 \div 7$                       B.  $95 \times 7$                       C.  $988 - 988$                       D.  $-64 + 72$

**6. Which of the following are natural numbers?**

- A 34.90                      B. 45.4                              C.  $\frac{3}{4}$                               D.  $\sqrt{49}$

**7. Find the Area of Circle is natural number if radius is 10 by using the following formula.**

$$A = \pi r^2$$

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## Natural Number as Integer

### Integers

An integer is a whole number (not a fractional number) that can be positive, negative, or zero. Examples of integers are: -4, 1, 9, 8, 7, and 3,043.

The set of integers, denoted **Z**, is formally defined as follows:

$$\mathbf{Z} = \{\dots-4, -3, -2, -1, 0, 1, 2, 3, 4 \dots\}$$

#### Remember:

1. When we add, subtract or multiply integers, the answers are always integers.
2. Integer multiplication rule.

+A	X	+B	+AB
-A	X	-B	+AB
+A	X	-B	-AB
-A	X	+B	-AB

## Natural Number as Rational Number

A rational number is any number that can be expressed as a ratio of two integers (hence the name "rational"). It can be written as a fraction in which the top number (numerator) is divided by the bottom number (denominator).

Example:  $\frac{5}{3}$ ,  $\frac{6}{7}$ ,  $\frac{7}{8}$

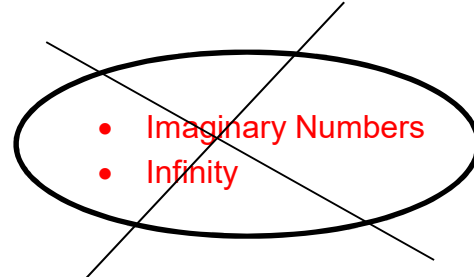
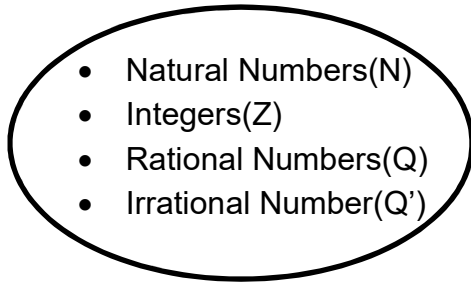
## Natural Number as Irrational Number

An **Irrational Number** is a real number that **cannot** be written as a simple fraction.

Example: Value of  $\pi = 3.14159\dots\dots$ , Value of  $\sqrt{2} = 1.41421356237\dots$

## REAL NUMBERS (R)

Any number you can think is a real number except Square root of minus number (**Imaginary Number**) and **Infinity**. Or a **real number** is a value that represents a quantity along a number line.



## Imaginary Numbers

A number that is expressed in terms of the square root of a negative number (the square root of a negative number) Imaginary numbers are represented by i or j. We will discuss more about imaginary number in the coming lessons.

Example:

$$\sqrt{-1}$$

**Solve and find the type of Number?**

1.  $8 + 10 - 12$

2.  $21 \div 7 + 5$

3.  $6 \times (44 \div 6)$

4.  $(11 - 2) + (7 \times 4)$

5.  $\sqrt{49} \times 2 \div 3$

## **Composite Number**

A number that can be divided exactly by numbers, 1 or itself is called composite number.

Example: 9 can be divided exactly by 3, 1 as well as by itself means 9, another example 16 can be divided exactly by 4, 2, 8, 1 and 16.

## **Prime Number**

A number cannot be divided exactly by numbers other than 1 or itself is called Prime Number.

Example: 7 cannot be divided exactly with numbers but it can divide by 1 or 7 another example 13 cannot be divided exactly with numbers but it can divide by 1 or 13.

## **Factorization**

Factors of a number are numbers that divide evenly into another number.

Example: Factor of 12 is  $2 \times 2 \times 3$  or  $3 \times 4$  or  $2 \times 6$  or  $12 \times 1$

## **Prime Factor**

Prime **factorization** is finding the factors of a number that are prime.

Example: Factor of 60 is 2, 2, 3, 5