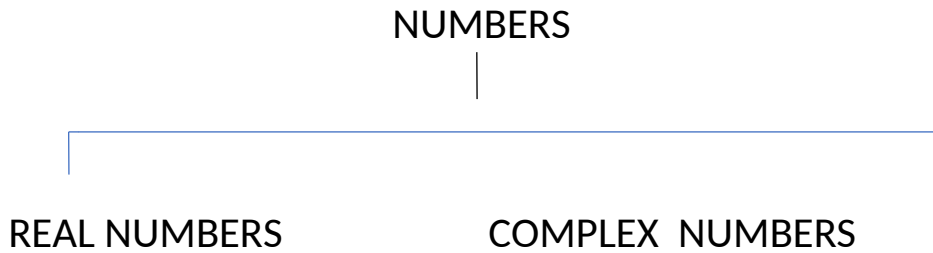
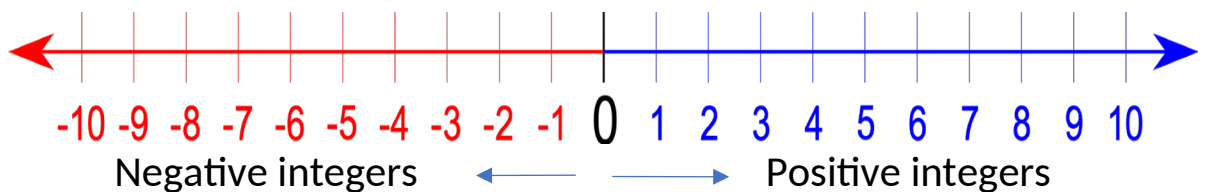


Knowing our numbers



Real numbers can also be divided into many parts.

1. **Integers**- These real numbers don't have any fractional component. Example : -2,-1,0,+1,+2 etc.



2. **Natural numbers**- A natural number is an integer greater than 0. Natural numbers begin at 1 and increment to infinity: 1, 2, 3, 4, 5, etc.
3. **Whole number**- A whole number is an integer that is 0 or greater. The first five whole numbers are 0, 1, 2, 3, and 4.
4. **Prime number**- A prime number is a positive integer greater than one, that can only be exactly divided by the positive integers 1 and itself without leaving a remainder. Example: 2,97,69 etc.
5. **Composite number**- Composite numbers are the numbers which have factors other than 1 and the number itself. Example: 6,16,200 etc.
6. **Even number**- An even number is an integer that can be divided by two and remain an integer or has no remainder. Example: 2,4,6,8 etc.
7. **Odd number**- Any integer (not a fraction) that cannot be divided exactly by 2. The last digit is 1, 3, 5, 7 or 9. Example: -3, 1, 7 and 35 are all odd numbers.

8. **Rational number**- a rational number is a number that can be expressed as the quotient or fraction p/q of two integers, a numerator p and a non-zero denominator q . Since q may be equal to 1, every integer is a rational number. Example: 5,99,0, $7/8$,2.5 etc.
9. **Irrational number**- An irrational number is real number that cannot be expressed as a ratio of two integers. ...
The number "pi" or π (3.14159...) is a common example of an irrational number, $\sqrt{2}$, $\sqrt{3}$ etc.

IMPORTANT NOTES:

- a. 2 is the smallest prime number.
- b. 0 is the starting element of whole numbers.
- c. 1 is the starting element of natural number set.
- d. 0 is a rational number, as it can be written in the p/q form, like $0/5$ where $q \neq 0$
- e. All the natural numbers, whole numbers, even, odd, prime, composite numbers are integers, but all the integers are not so.
- f. All integers are rational numbers.