



Bridge Course
VIII - MATHEMATICS

1) What is a number?

A) A number is a symbol or a figure which represents the quantities.

ex: 0, 1, 2, 3, ...

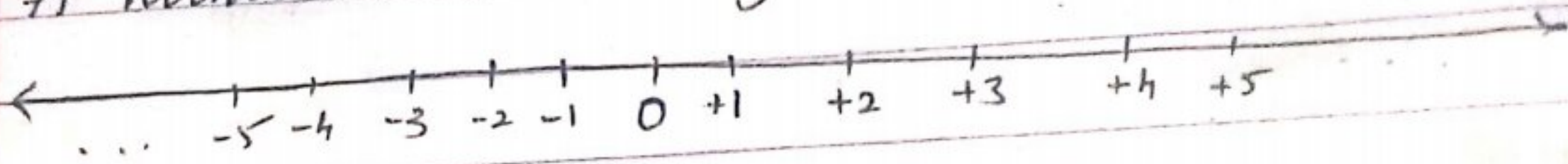
0, 1,

I, II, III, IV, ...

2) Write the difference between positive and negative number?

A) A number greater than zero is positive number

A number less than zero is called negative number



When we move ^{left} to right value increases.

When we move right to left the value ↓ses.

3) Odd numbers:

The numbers which are not divisible by 2.

ex: 1, 3, 5, 7, 11, ...

Even numbers:-

The numbers which are divisible by 2.

ex: 2, 4, 6, 8, ...

4) Add the following:-

1) 2349, 84963, 614

= 2349 + 84963 + 614

= 87926

$$\begin{array}{r} 111 \\ 2349 \\ + 84963 \\ \quad 614 \\ \hline 87926 \end{array}$$

$$\text{ii)} \quad 23.18, 8.729, 30$$

$$= 23.18 + 8.729 + 30$$

$$= \underline{61.909}$$

$$\begin{array}{r} 23.18 \\ 8.729 \\ \hline 30.00 \\ \hline 61.909 \end{array}$$

$$\text{iii)} \quad \frac{2}{7} + \frac{9}{7}$$

$$= \frac{2+9}{7}$$

$$= \underline{\underline{\frac{11}{7}}}$$

$$\text{iv)} \quad \frac{3}{5} + \frac{4}{7}$$

$$= \frac{21+20}{35}$$

$$= \underline{\underline{\frac{41}{35}}}$$

5) Acute angle:

An angle whose measure is less than 90° .
ex: $30^\circ, 45^\circ, 60^\circ$ etc.

Obtuse angle:

An angle whose measure is greater than 90° .
ex: $120^\circ, 135^\circ, 160^\circ$ etc.

Right angle :-

An angle whose measure is exact 90° .


~~is~~

Straight angle :-

An angle whose measure is 180° is called straight angle.

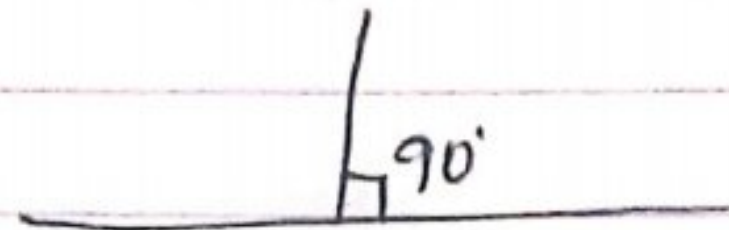
6) parallel lines :

Two straight lines which don't intersect at any point are called parallel lines.

ex:  There is a fixed distance between two lines

perpendicular lines :- (\perp) .

Two lines intersect each other at a right angle. or the lines intersect to form 90° .



7) Define Constant :

Constant : A value that doesn't change.

ex: In $2x+5$, 5 is constant.

Variable :-

They are represented by any alphabet a, x, y etc. The variable is an unknown value in the equation.

Co-eff :-

A numerical multiplied to the variable.

ex: In $3x+9$

$x \Rightarrow$ variable and $3 \Rightarrow$ Co-efficient of 'x'.

8) Like terms :

Terms that have same variables and powers.

ex, $5x$ and $6x$

Un-like terms :

Terms that ~~be~~ don't have same variables and powers. 5 and $6x^2$.

9) Name the instrument use to measure angles :-

A) The instrument use to measure angles is protractor.

Collinear points : Three or more points lie on the same line are called collinear points.

Non-collinear points : Three or more points don't lie in same line are called Non-collinear points.