

**SYLLABUS**

1. Real Numbers
2. Polynomials and Factorisation
3. The Elements of Geometry
9. Statistics

**MATHEMATICS Class - 9**

Time : 45 Min.

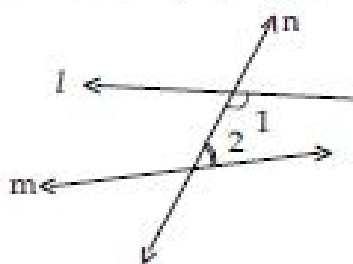
Marks : 20

	Project Work	Creative Problems 5 to 10 with solutions	Written works	Slip Test	Total
Allotted Marks	10	10	10	20	50
Scored Marks					

I. Solve the following :

4 × 1 = 4 M

1. Represent  $\frac{8}{5}$  and  $-\frac{8}{5}$  on the numberline.
2. Without actual calculating the cubes, find the value of  $(-10)^3 + (7)^3 + (3)^3$
3. In the adjacent figure, a line  $n$  falls on lines  $l$  and  $m$  such that the sum of the interior angles 1 and 2 is less than  $180^\circ$  then what can you say about lines  $l$  and  $m$  ?



4. Write the mark wise frequencies in the following frequency distribution table.

Marks	Upto 5	Upto 6	Upto 7	Upto 8	Upto 9	Upto 10
No. of students	5	11	19	31	40	45

II. Solve the following :

3 × 2 = 6 M

5. Find the value of  $\sqrt{5}$  upto 3 decimal places.
6. If  $a + b + c = 9$  and  $ab + bc + ca = 26$ , find  $a^2 + b^2 + c^2$ .
7. The heights of boys of IX class of a school are given below.

Height (cm)	135	140	147	152	155	160
Boys	2	5	12	10	7	1

Find median heights of boys