



Class 9 (Syllabus)

There will be 45 multiple choice questions from the below mentioned syllabus.
The time duration will be 1 hour.

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| 1. Number systems | 2. Polynomials |
| 3. Coordinate Geometry | 4. Linear Equations in Two Variables |
| 5. Introduction to Euclid Geometry | 6. Lines and Angles |
| 7. Triangles | 8. Quadrilaterals |
| 9. Areas of Parallelograms and Triangles | 10. Circles |
| 11. Heron's Formula | 12. Surface Areas and Volumes |
| 13. Constructions | 14. Statistics |

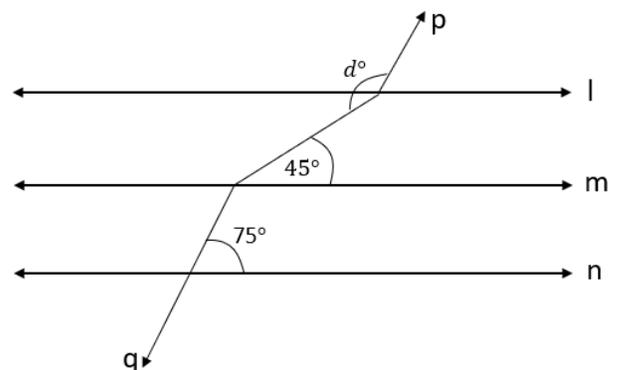
Sample Paper

1. If $x = -1$, $y = 2$ is a solution of the equation $3x + 4y = k$, find the value of k .
- A. 0 B. 5 C. 1 D. -1

2. Write the degree of the following polynomial $9x^3 + 7x^2 + 6x$
- A. 2 B. 3 C. 6 D. 7

3. In the given figure, $l \parallel m \parallel n$, $p \parallel q$,
find $\angle d$.

- A. 120° B. 150°
C. 140° D. 135°



4. The coordinates of the point A, that is below the X-axis and lying on the Y-axis at a distance of 4 units are:

- A. (-4,0) B. (0,-4) C. (0,4) D. (0,-8)

5. The coordinates of the point A, that is below the X-axis and lying on the Y-axis at a distance of 4 units are:

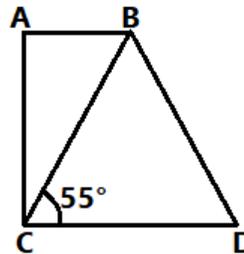
- A. (-4,0) B. (0,-4) C. (0,4) D. (0,-8)

6. Euclid's third postulate is about:-

- A. Squares B. Angles C. Circles D. Lines

7. In the given figure, $BC = BD$. Find $\angle ABD$.

- A. 120° B. 125°
C. 75° D. 118°



8. Having APB and CQD as two parallel lines, then the bisectors of the angles APQ, BPQ, CQP and PQD will form a shape. Identify the name of the shape formed?

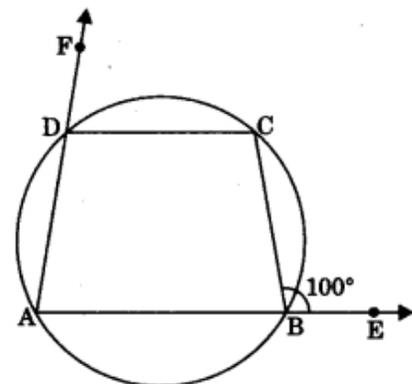
- A. Square B. Rectangle C. Rhombus D. any other parallelogram

9. In the figure, ABCD is a rectangle and PQCD is a parallelogram. Find out the area of ABCD, if $DC = 10\text{cm}$ and $BC = 8\text{ cm}$.

- A. 50cm^2 B. 40cm^2 C. 30cm^2 D. None of these

10. In figure, sides AB and AD of a quadrilateral ABCD are produced to E and F respectively. If $\angle CBE = 100^\circ$, then find $\angle CDF$.

- A. 100° B. 90°
C. 130° D. 80°



11. Find the measure of an angle, if seven times its complement is 10° less than three times its supplement.

- A. 20° B. 15° C. 30° D. 25°

12. Sides of a triangle are in the ratio of 12 : 17 : 25 and its perimeter is 540cm. Find its area.

- A. 9000 B. 5400 C. 1200 D. 8900

13. The radius of a sphere is decreased by 50 % by what % does its curved surface area decrease?

- A. 63.33% B. 50% C. 75% D. 25%

14. Find the mean marks of 25 students in the English exam (out of 100). Data is given below

- A. 81.5 B. 3.2
C. 86.2 D. 83

x	60	70	85	90	92	94	96
f	2	6	4	5	3	3	2