

## Class 9 Maths Important Questions

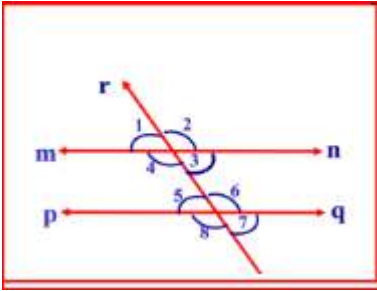
1. Prove that in circle, equal chord forms equal angles at centre
2. Construct a triangle ABC if  $BC = 7\text{cm}$ ,  $\angle B = 75^\circ$  and  $AB+AC = 13\text{cm}$
3. solve graphically  $x + y = 7$
4. Give one example each for quadratic and linear polynomials
5. Draw a circle of radius 2.5cm mark Diameter and chord
6. Calculate area of triangle whose sides are of the length 5 cm , 4 cm, 3cm
7. Blood group of 30 students is given below Construct frequency distribution table for following data:

O	A	O	A	B	O	A	B	B	A	B	O	A	B	B
A	B	B	A	B	B	B	A	B	A	B	A	B	A	B

8. Expand By using suitable identity:  $(x+4)(X+10)$
9. Prove that in a circle line Drawn thrown to the centre of the circle to bisect a chord is Perpendicular to the chord
10. Prove that angles opposite to equal sides of an isosceles triangle are equal.
11. The cost of a book is twice the cost of a pen. Write a linear equation in two variables to represent  
(a)  $x-2y=0$  (b)  $x+2y=0$  (c)  $2x-2y=0$  (d)  $3x-2y=0$
12. State SAS Congruence Rule:
13. Define adjacent angles
14. Find the decimal expansion of  $\frac{10}{3}$
15. Write any four Euclid's axioms

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**IMPORTANT QUESTIONS**

16. In the below figure, write one pair of:



- (a) Corresponding angles
- (b) Alternate interior angles

17. In a cricket match, a batswoman hits a boundary 6 times out of 30 balls she plays. Find the probability that she did not hit a boundary.

18. A cylindrical pillar is 50cm in diameter and 3.5m in height. Find the cost of painting the curved surface of the pillar at the rate of Rs. 12.50 per m<sup>2</sup>

19. Find the volume of your Geometric Box

20. The taxi fare in a city is as follows: for the first kilometre, the fare is Rs.8 and for the subsequent distance. It is Rs. 5 per km. Taking the distance covered as  $x$  km and total fare as Rs  $y$ , write a linear equation for this Information, and draw its graph.