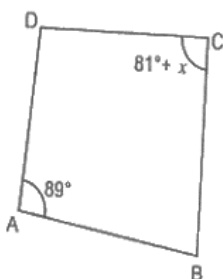


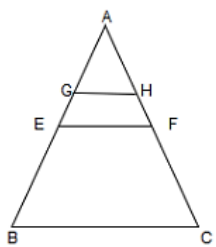


CLASS 9 MATHS MCQ BASED QUESTIONS

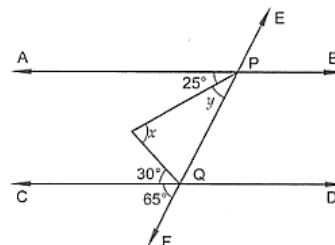
- Point $(0, -7)$ lies
(a) in the fourth quadrant (b) on the y-axis
(c) on the x-axis (d) in the second quadrant
- The sides of a triangle are 50 cm, 78 cm and 112 cm. The smallest altitude is
(a) 20 cm (b) 40 cm
(c) 30 cm (d) 50 cm
- For what value of x in the figure, points A, B, C and D are concyclic?



- (a) 10° (b) 9°
(c) 12° (d) 11°
- E and F are the mid-points of sides AB and AC resp. of the $\triangle ABC$; G and H are the mid-points of the sides AE and AF resp. of the $\triangle AEF$. If $GH = 1.8\text{cm}$, Find BC.

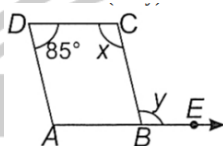


- a) 6 cm (b) 7.2 cm
c) 7.5 cm d) 6.5 cm
- If $\frac{5-\sqrt{3}}{2+\sqrt{3}} = x + y\sqrt{3}$, then
a) $x = 13, y = 7$ (b) $x = -13, y = -7$
c) $x = -13, y = 7$ (d) $x = 13, y = -7$
 - In Figure, AB and CD are parallel lines and transversal EF intersects them at P and Q respectively. If $\angle APR = 25^\circ$, $\angle RQC = 30^\circ$ and $\angle CQF = 65^\circ$, then
a) $x = 50^\circ, y = 45^\circ$ (b) $x = 60^\circ, y = 35^\circ$
c) $x = 35^\circ, y = 60^\circ$ (d) $x = 55^\circ, y = 40^\circ$





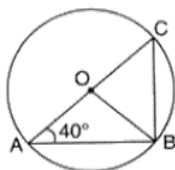
7. $x = 2, y = 5$ is a solution of the linear equation
 a) $x + y = 7$ b) $5x + y = 7$
 c) $5x + 2y = 7$ d) $x + 2y = 7$
8. When $p(x) = x^4 + 2x^3 - 3x^2 + x - 1$ is divided by $(x - 2)$, the remainder is
 a) 21 b) -1
 c) -15 d) 0
9. The difference between two distinct irrational numbers is always
 a) a rational number b) both rational and irrational number
 c) an irrational number d) an integer
10. ABCD is a parallelogram in which $\angle ADC = 85^\circ$ and side AB is produced to point E as shown in the figure. Find the value of $(x + y)$.



- a) 85° b) 95°
 c) 190° d) 160°
11. The simplest form of $0.12\bar{3}$ is
 a) none of these b) $\frac{41}{333}$
 c) $\frac{41}{330}$ d) $\frac{37}{330}$
12. The graph of the line with abscissa $y = -6$ passes through
 a) $(-1, 4)$ b) $(0, 4)$
 c) $(4, -6)$ d) $(-6, 4)$
13. Given $\angle POR = 3x$ and $\angle QOR = 2x + 10^\circ$. If $\angle POQ$ is a straight line, then the value of x is
-
- a) 36° b) 34°
 c) 30° d) 42°
14. An irrational number between 2 and 2.5 is
 a) $\sqrt{22.5}$ b) $\sqrt{12.5}$
 c) $\sqrt{5}$ d) $\sqrt{11}$



15. If $\angle OAB = 40^\circ$, then the measure of $\angle ACB$ is



- a) 50° b) 80°
c) 40° d) 20°

16. The point whose abscissa is 4 and this point lies on the x-axis is:

- a) (0, 4) b) (4, 0)
c) (4, 4) d) (2, 4)

17. The positive solutions of the equation $ax + by + c = 0$ always lie in the

- a) 1st quadrant b) 2nd quadrant
c) 3rd quadrant d) 4th quadrant

18. If $x + y + z = 9$ and $xy + yz + zx = 23$, then the value of $x^3 + y^3 + z^3 - 3xyz$ is

- a) 108 b) 180
c) 209 d) 144

19. Assertion (A): If the diagonals of a parallelogram ABCD are equal, then $\angle ABC = 90^\circ$

Reason (R): If the diagonals of a parallelogram are equal, it becomes a rectangle.

- a) Both A and R are true and R is the correct explanation of A.
b) Both A and R are true but R is not the correct explanation of A.
c) A is true but R is false.
d) A is false but R is true.

20. Assertion (A): Rational number lying between two rational numbers a and b is $\frac{a+b}{2}$.

Reason (R): There is one rational number lying between any two rational numbers.

- a) Both A and R are true and R is the correct explanation of A.
b) Both A and R are true but R is not the correct explanation of A.
c) A is true but R is false.
d) A is false but R is true





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