



ARMY PUBLIC SCHOOL - BHUJ
PRACTICE PAPER (2020-21)
BASED ON CHAPTERS 1 & 3
MATHS

Roll No. :
Class : IX

Time : 1hr 30 Minutes
MAX. MARKS. : 40 MARKS

SECTION A (1 Mark Each)

1. Is zero a rational number? Can you write it in the form of $\frac{p}{q}$, where p & q are integer and $q \neq 0$.
2. Define irrational Number with example.
3. A point P lies on Y-axis .Write abscissa of P
4. Ordinate of a variable point is always 0, on which line does it lie?.
5. Find the distance of the point P (8, 4) from the Y-axis.

Multiple choice questions

6. The point (0,-7) lies on (a) X-axis (b) Y-axis (c) In the 1st quadrant (d) at origin.
7. The point (-2,3) lies in the (a) 2nd quadrant (b) 3rd quadrant (c) 1st quadrant (d) 4th quadrant.
8. The value of $0.\bar{2}$ in the form of $\frac{p}{q}$, where p & q are integer and $q \neq 0$. (a) $\frac{1}{5}$ (b) 2 (c) $\frac{2}{9}$ (d) $\frac{1}{8}$.
9. Which of the following is irrational? (a) 0.14 (b) $0.1\overline{416}$ (c) $0.14\overline{16}$ (d) 0.4014001400014000014....
10. $2\sqrt{3} + \sqrt{3}$ is equal to (a) $4\sqrt{6}$ (b) $3\sqrt{3}$ (c) 6 (d) $4\sqrt{6}$

SECTION A (2 Mark Each)

11. If the perpendicular distance of a point P from the X-axis is 3units along the negative direction of the Y-axis .Write the ordinate of P
12. Find the value of $(256)^{0.16} \times (256)^{0.09}$.
13. Find two rational number between $\frac{1}{2}$ and $\frac{7}{5}$.

SECTION C (3 Marks Each)

14. Find six rational number between $\frac{4}{3}$ and $\frac{8}{5}$.
15. Simplify : $(4\sqrt{3} - 2\sqrt{2}) (4\sqrt{2} + 2\sqrt{3})$.
16. Write the answer of each of the following questions :- (I) What is the name of horizontal and vertical lines drawn to determine the position of any point in the Cartesian plane?
(II) What is the name of each part of the plane formed by these two lines?
(III) Write the name of the point where these two lines intersect.
17. Simplify :- $\frac{2 + \sqrt{3}}{3 - \sqrt{2}}$.

SECTION D (4 Marks Each)

18. Find three different irrational numbers between $\frac{5}{7}$ and $\frac{9}{11}$
19. Plot the points (5,0), (0,5), (2,5), (5,2),(6,3), (-3,- 5),(5,-3),and (-3, 6) in the Cartesian plane by using a graph paper.
20. Simplify :- $\sqrt[4]{81} - 8\sqrt[3]{216} + 15\sqrt[4]{16} + \sqrt{225}$

OR

Find the value of a and b ,If $\frac{2 + \sqrt{3}}{3 - \sqrt{3}} = a + b\sqrt{3}$