
CBSE TEST PAPER-02
CLASS - IX MATHEMATICS (Number System)

1. Every natural number is [1]
(i) not an integer (ii) always a whole number
(iii) an irrational number (iv) not a fraction
2. Select the correct statement from the following [1]
(i) $\frac{7}{9} > \frac{4}{5}$ (ii) $\frac{2}{6} < \frac{3}{9}$
(iii) $\frac{-2}{3} > \frac{-4}{5}$ (iv) $\frac{-5}{7} < \frac{-3}{4}$
3. $7.\bar{2}$ is equal to [1]
(i) $\frac{68}{9}$ (ii) $\frac{64}{9}$ (iii) $\frac{65}{9}$ (iv) $\frac{63}{9}$
4. 0.83458456.....is [1]
(i) an irrational number (ii) rational number
(iii) a natural number (iv) a whole number.
5. Evaluate (i) $\sqrt[3]{125}$ (ii) $\sqrt[4]{1250}$ [2]
6. Find rationalizing factor of $\sqrt{300}$ [2]
7. Rationalize the denominator $\frac{1}{\sqrt{5}+\sqrt{2}}$ and subtract it from $\sqrt{5}-\sqrt{2}$ [2]
8. Show that $\sqrt{7}-3$ is irrational [2]
9. Represent $\sqrt{3}$ on number line [3]
10. Simplify $(3\sqrt{2}+2\sqrt{3})^2(3\sqrt{2}-2\sqrt{3})^2$ [3]
11. Express $2.4\overline{178}$ in the form $\frac{p}{q}$ [3]
12. Simplify $(27)^{\frac{2}{3}} \div 9^{\frac{1}{2}} \cdot 3^{\frac{3}{2}}$ [3]
13. It $\sqrt{5} = 2.236$ and $\sqrt{3} = 1.732$ Find the value of $\frac{2}{\sqrt{5}+\sqrt{3}} + \frac{7}{\sqrt{5}-\sqrt{3}}$ [5]
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