



ABC PUBLIC SCHOOL

FA-1- 2017-18

CLASS- IX

SUB-MATHS

Time: 1:20 Hrs.

M.M.: 20

Note:- Every question carrying 2 marks each.

Q1: $\left(\frac{81}{16}\right)^{-3/4} \times \left\{ \left(\frac{25}{9}\right)^{-3/2} \div \left(\frac{5}{2}\right)^{-3} \right\} = 1$

Q2: If $\sqrt{2}=1.41$ & $\sqrt{5}=2.24$. find value of $\frac{3}{8\sqrt{2}+5\sqrt{5}} + \frac{2}{8\sqrt{2}-5\sqrt{5}}$

Q3: Find the smallest of the numbers $\sqrt[3]{6}$, $\sqrt[6]{24}$ & $\sqrt[4]{8}$

Q4: Rationalise the denominator $\left(\frac{5\sqrt{3}-4\sqrt{2}}{4\sqrt{3}+3\sqrt{2}}\right)$

Q5: Express $0.1\overline{23}$ in the form of p/q

Q6. Divide $16\sqrt{75}$ by $5\sqrt{12}$

Q7: Write 4 irrational numbers b/w 0.1 & 0.2

Q8: Write 4 rational b/w 1/3 & 1/2.

Q9: If $\left(\frac{\sqrt{3}-1}{\sqrt{3}+1}\right) = a - b\sqrt{3}$, find values of a & b.

Q10: If $x = 2 + \sqrt{3}$, find: $\left(x^2 + \frac{1}{x^2}\right)^2$



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