CLASS - IX MATHEMATICS (Number System)

1. The rational number not lying between $\frac{3}{5}$ and $\frac{2}{3}$ is [1]

   $(A)\frac{49}{75}$ $(B)\frac{50}{75}$

   $(C)\frac{47}{75}$ $(D)\frac{46}{75}$

2. $0.12\overline{3}$ is equal to [1]

   (A) $\frac{122}{990}$ (B) $\frac{122}{100}$

   (C) $\frac{122}{99}$ (D) None of these

3. The number $\left(1+\sqrt{3}\right)^2$ is [1]

   (A) natural number (B) irrational number

   (C) rational number (D) integer

4. The simplest form of $\sqrt{600}$ is [1]

   $(A)10\sqrt{60}$ $(B)100\sqrt{6}$

   $(C)20\sqrt{3}$ $(D)10\sqrt{6}$

5. Find four rational numbers between $\frac{3}{7} and \frac{4}{7}$ [2]

6. Writ the following in decimal form $(i)\frac{36}{100}$ $(ii)\frac{2}{11}$ [2]

7. Express $2.417\overline{8}$ in the form $\frac{a}{b}$ [2]

8. Multiply $\sqrt{3}$ by $\sqrt[3]{5}$ [2]

9. Rationalize the denominator of $\frac{1}{4+2\sqrt{3}}$ [3]

10. Visualize the representation of $5.3\overline{7}$ on the no. line 3 decimal places [3]

11. Shone that $5\sqrt{2}$ is not rational number [3]

12. Simplify $3\sqrt[3]{250}+7\sqrt[3]{16}-4\sqrt[3]{54}$ [3]

13. Simplify $\frac{2+\sqrt{5}}{2-\sqrt{5}}+\frac{2-\sqrt{5}}{2+\sqrt{5}}$ [5]