ENGAGE ENRICH EMPOWER

SRI VIDYANIKETAN
PUBLIC SCHOOL SRIRAMNAGAR

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GRADE – IX
MATHEMATICS

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LIVE WORKSHEET-3   **Subject: MATHEMATICS**

CHAPTER – NUMBER SYSTEM

1. which of the following is an irrational number?
   a. $\sqrt{16}$ b. $\sqrt{(12/3)}$
   c. $\sqrt{12}$ d. $\sqrt{100}$

2. $\sqrt{6} \times \sqrt{27}$ is equal to:
   a. $9\sqrt{2}$ b. $3\sqrt{3}$
   c. $2\sqrt{2}$ d. $9\sqrt{3}$

3. Which of the following is equal to x^3?
   a. $x^6 - x^3$ b. $(x^6)x^3$
   c. x^6/x^3 d. $(x^6)^3$

4. In between any two numbers, there are:
   a. Only one rational number   b. Two rational numbers
   c. Infinite rational numbers   d. No rational number

5. Every rational number is:
   a. Whole number   b. Natural number
   c. Integer   d. Real number

6. The three rational numbers between 3 and 4 are:
   a. 5/2, 6/2, 7/2   b. 13/4, 14/4, 15/4
   c. 12/7, 13/7, 14/7   d. 11/4, 12/4, 13/4

7. The rational number $0.\overline{3}$ can also be written as
   a. 0.3   b. $\frac{3}{10}$
   c. 0.33..   d. $\frac{1}{3}$

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8. The number 1.101001000100001... is

   a. a natural number   b. a whole number
   c. a rational number   d. an irrational

9. The value of $\dfrac{1}{\sqrt{10}}$ when $\sqrt{10} = 3.162$ is

   a. 3162   b. 31.62
   c. 0.3162   d. 316.2

10. The number $(3-\sqrt{3})(3+\sqrt{3})$ is

   a. an irrational number   b. a rational number
   c. not a natural number   d. none of these

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