



## Class 9 Mathematics | The World Of Numbers

MCQ WORKSHEET • 15 questions • Choose one correct option • Suggested time: 25 minutes

**1. Which number is irrational?**

A.  $\sqrt{49}$  B.  $-\frac{3}{5}$  C. 0.125 D.  $\sqrt{7}$

**2. The decimal 0.272727... equals:**

A.  $\frac{3}{11}$  B.  $\frac{11}{3}$  C.  $\frac{27}{100}$  D.  $\frac{27}{10}$

**3. A rational number between  $\frac{2}{5}$  and  $\frac{3}{5}$  is:**

A.  $\frac{1}{5}$  B.  $\frac{4}{5}$  C.  $\frac{7}{10}$  D.  $\frac{1}{2}$

**4. Between any two distinct rational numbers there are:**

- A. exactly ten rational numbers
- B. no rational numbers
- C. exactly one rational number
- D. infinitely many rational numbers

**5. Which fraction has a terminating decimal expansion?**

A.  $\frac{2}{7}$  B.  $\frac{4}{15}$  C.  $\frac{5}{6}$  D.  $\frac{7}{40}$

**6. The sum  $4+\sqrt{3}$  is:**

- A. an integer
- B. rational
- C. irrational
- D. a natural number

**7. The product  $\sqrt{5}\times\sqrt{5}$  is:**

A. 25 B. 5 C. 10 D.  $\sqrt{10}$

**8. The number 0.101001000100001... is:**

- A. a repeating decimal
- B. irrational
- C. an integer
- D. terminating

**9. Which is the smallest number?**

A. 0 B. -1.5 C. -2 D.  $-\sqrt{5}$

**10. The value of  $\sqrt{50}-\sqrt{8}$  is:**

A.  $3\sqrt{2}$  B.  $7\sqrt{2}$  C.  $2\sqrt{3}$  D.  $\sqrt{42}$

**11. The rationalised form of  $\frac{1}{\sqrt{3}}$  is:**

A.  $\frac{\sqrt{3}}{3}$  B.  $\sqrt{3}$  C.  $\frac{1}{3}$  D.  $3\sqrt{3}$

**12. If a is rational and b irrational, which is always irrational?**

A.  $a+b$  B.  $\frac{b}{b}$  C.  $a-a$  D.  $ab$

**13. The number  $\sqrt{2}$  lies between:**

- A. 1.2 and 1.3
- B. 2 and 3
- C. 1.4 and 1.5
- D. 1.5 and 1.6

**14. In a square-root spiral, a right triangle has legs  $\sqrt{8}$  and 1. Its hypotenuse is:**

A.  $\sqrt{10}$  B.  $\sqrt{7}$  C. 3 D. 9

**15. If  $\sqrt{2}=\frac{p}{q}$  in lowest terms, the standard contradiction shows:**

- A.  $p=0$
- B. p and q are both even
- C. p and q are both odd
- D.  $q=1$

**ANSWER KEY — check after completing all 15 questions**

**1.D 2.A 3.D 4.D 5.D 6.C 7.B 8.B 9.D 10.A 11.A 12.A 13.C 14.C 15.B**

Original exam-style practice • Reference notes: [www.physics.guru/cbse-practice-papers/](http://www.physics.guru/cbse-practice-papers/) • Not an official paper

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