

# MATHEMATICS (GRADE IX )

## REAL NUMBERS -MCQS

1. In between two rational number there is/are:  
a) Exactly one rational number    b) Infinitely many rational number  
c) Many irrational numbers        d) Only irrational numbers
2. The product of a rational and an irrational numbers is:  
a) Always an integer                      b) Always a rational number  
c) Always an irrational number    d) Sometimes rational and sometimes irrational
3. The decimal expansion of an irrational number may be:  
a) Terminating                              b) Recurring  
c) Either terminating or non- terminating d) Non-terminating and non-recurring
4. A rational number between  $\sqrt{2}$  and  $\sqrt{3}$ :  
a) 1.9              b)  $(\sqrt{2} \cdot \sqrt{3})/2$         c) 1.5              d) 1.8
5. Which of the following is irrational?  
a)  $\sqrt{\frac{4}{9}}$   
b)  $\frac{\sqrt{12}}{\sqrt{3}}$   
c)  $\sqrt{5}$     d)  $\sqrt{81}$
6.  $4\sqrt{5} + 5\sqrt{5}$  is equal to:  
a)  $9\sqrt{5}$               b)  $9\sqrt{10}$                               c)  $5\sqrt{10}$                               d)  $7\sqrt{5}$
7. What would be the denominator after rationalizing  $7/(5\sqrt{3} - 5\sqrt{2})$ ?  
a) 19              b) 20              c) 25              d) None of these
8. Every rational number is:  
a. Whole number              b. Natural number                      c. Integer  
d. Real number
9.  $\sqrt{6} \times \sqrt{27}$  is equal to:  
a.  $9\sqrt{2}$               b.  $3\sqrt{3}$               c.  $2\sqrt{2}$               d.  $9\sqrt{3}$
10. 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.  $11/4, 12/4, 13/4$

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