

Choose the correct answer from the given ones :

1 The irrational number between 3 and 4 is .....

(a) 3.6

(b)  $\sqrt{6}$

(c)  $\sqrt{15}$

(d)  $\sqrt{17}$

2 The square whose side length is  $\sqrt{7}$  cm. , its area = ..... cm<sup>2</sup>

(a) 28

(b) 49

(c) 7

(d) 14

3 If  $x \in \mathbb{Z}$  and  $x < \sqrt{11} < x + 1$  , then  $x$  = .....

(a) 3

(b) 2

(c) 4

(d) 10

4  $\mathbb{R} =$  .....

(a)  $\mathbb{Q} \cup \mathbb{Q}$

(b)  $\mathbb{Z}_+ \cup \mathbb{Z}_-$

(c)  $\mathbb{R}_+ \cup \mathbb{R}_-$

(d)  $\mathbb{N} \cup \mathbb{R}_-$

5  $\{x : x \in \mathbb{R} , x < 0\} =$  .....

(a)  $\mathbb{R}_+$

(b)  $\mathbb{R}_-$

(c)  $\mathbb{R}^*$

(d)  $\mathbb{R}$

6 If  $x$  is a negative real number , then which of the following numbers is positive ?

(a)  $x^2$

(b)  $x^3$

(c)  $2x$

(d)  $\frac{x}{2}$

7 The irrational number in the following numbers is .....

(a)  $\sqrt{\frac{1}{4}}$

(b)  $\sqrt[3]{8}$

(c)  $\sqrt{\frac{4}{9}}$

(d)  $\sqrt{2}$

8 If  $x = \sqrt{2}$  ,  $y = 2$  , then which of the following does not represent a rational number ?

(a)  $x^2 + y$

(b)  $x + y^2$

(c)  $\sqrt{x^2 y}$

(d)  $\sqrt{2} x y$

9 The irrational number located between 2 and 3 is .....

(a)  $\sqrt{10}$

(b)  $\sqrt{7}$

(c) 2.5

(d)  $\sqrt{3}$

10 The irrational number located between -2 and -1 is .....

(a) -3

(b)  $-1\frac{1}{2}$

(c)  $-\sqrt{3}$

(d)  $\sqrt{2}$