

CLASS IX MATH CBT APRIL-2025

CH.1 Number Systems

Rahul and Meena were playing a number game. They had a list of numbers: They needed to classify them into rational, irrational, whole numbers, or integers.

1. Which of the following is an irrational number?

- a) 0
- b) 1
- c) π
- d) 1.222

Correct Answer: (c)

2. Which number is a whole number but not a natural number?

- a) 3
- b) 1
- c) 0
- d) -2

Correct Answer: (c) 0

3. The decimal expansion of a rational number is always:

- a) Terminating or repeating
- b) Non-repeating and non-terminating
- c) Always terminating
- d) None of these

Correct Answer: (a) Terminating or repeating

4. Which of the following is NOT an integer?

- a) -2
- b) 0
- c) 1.25
- d) 4

Correct Answer: (c) 1.25

5. The square root of 4 is:

- a) 2
- b) -2
- c) Both 2 and -2
- d) None of these

Correct Answer: (c) Both 2 and -2

An architect is designing a square-shaped park. The area of the park is 49 square meters. He wants to find the length of each side to plan a fence around it.

6. The side length of the park is:

- a) 49 m
- b) $\sqrt{49}$ m
- c) $\sqrt{94}$ m
- d) None of these

Correct Answer: (b) $\sqrt{49}$ m

7. The value of $\sqrt{49}$ is:

- a) 7
- b) -7
- c) Both 7 and -7
- d) None of these

Correct Answer: (c) Both 7 and -7

8. The number $\sqrt{49}$ is a:

- a) Whole number
- b) Rational number
- c) Integer
- d) All of these

Correct Answer: (d) All of these

9. If the park had an area of 50 square meters, would its side length be rational?

- a) Yes
- b) No
- c) Can't say
- d) Depends on the shape

Correct Answer: (b) No

10. What is the perimeter of the park with side length 7m?

- a) 14m
- b) 28m
- c) 49m
- d) 21m

Correct Answer: (b) 28m