CBSE | **CLASS 9 | Maths**

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CHAPTER-1 | Number System

QUIZ
PART-01

1. What is the rational number between 3 and 4?

A. 5/2

B. 3/5

C. 6/5

D. None of the above   (A)

Explanation: The rational numbers between 3 and 4 include fractions such as 5/2, 6/2, etc.

2. What is the value of $\frac{1}{2} - \frac{3}{5}$?

A. 3/10

B. 3/5

C. 6/5

D. None of the above   (A)

Explanation: The subtraction of the two fractions is calculated as $\frac{1}{2} - \frac{3}{5} = \frac{3}{10}$.

3. How many rational numbers exist between any two given rational numbers?

A. One

B. Zero

C. Infinitely many

D. None of the above   (C)

Explanation: There are infinitely many rational numbers between any two given rational numbers.

4. Which of the following is an example of an irrational number?

A. $\sqrt{2}$

B. 1/3

C. 5/4

D. None of the above   (A)

Explanation: $\sqrt{2}$ is an irrational number because it cannot be expressed as a fraction of two integers.

5. Which number is not a whole number?

A. 5

B. -3

C. 0

D. None of the above   (B)

Explanation: -3 is not a whole number since whole numbers start from 0 and go upwards.

6. What is the decimal expansion of 1/7?

A. 5

B. -3

C. 0

D. None of the above   (A)

Explanation: The decimal expansion of 1/7 is a repeating decimal: 0.142857...

7. What is the term used for numbers that can be expressed as a fraction?

A. 0.142857

B. 0.3333

C. 0.6666

D. None of the above   (A)

Explanation: Rational numbers are numbers that can be expressed in the form of $\frac{p}{q}$, where p and q are integers and q ≠ 0.

8. Which of the following is a property of rational numbers?

A. They have non-terminating decimals

B. They can be expressed as fractions

C. Their decimals never repeat

D. None of the above   (B)

Explanation: Rational numbers can always be expressed as fractions (p/q), where p and q are integers.

9. Which is the smallest rational number?

A. They have non-terminating decimals

B. They can be expressed as fractions

C. Their decimals never repeat

D. None of the above   (B)

Explanation: -1 is smaller than 0 and 1 on the number line.

10. What is the value of $\frac{2}{5} + \frac{3}{5}$?

A. 1

B. 5/5

C. 6/5

D. None of the above   (A)

Explanation: The sum of $\frac{2}{5} + \frac{3}{5} = \frac{5}{5} = 1$.