General Instructions:

1. This question paper consists of **15 multiple-choice questions (MCQs)**.
2. Each question carries **1 mark**. The maximum marks for this test are **15**.
3. The total time allowed to complete this test is **20 minutes**.
4. All questions are compulsory.
5. Each question has **four options (A), (B), (C), and (D)**. Only one option is correct.
6. Students must choose the **most appropriate option** for each question.
7. No marks will be deducted for incorrect answers.
8. Calculators and other electronic devices are **not permitted**.
9. Rough work should be done neatly in the space provided (if any).
10. Read each question carefully before answering.

Test Paper 5

Code: 2026/RationalNumbers/Class7/05

1. Simplify: $\frac{-2}{3} \times (\frac{4}{5} - \frac{1}{2})$

   (a) $\frac{-1}{5}$

   (b) $\frac{-2}{10}$

   (c) $\frac{-1}{10}$

   (d) $\frac{-3}{10}$

2. How many integers are there between $\frac{-10}{3}$ and $\frac{5}{2}$?

   (a) 4

   (b) 5

   (c) 6

   (d) 7

3. The multiplicative identity for rational numbers is:

   (a) 0

   (b) 1

   (c) -1

   (d) The number itself

4. If $\frac{3}{5}$ of a number is 12, the number is:

   (a) 20

   (b) 15

   (c) 30

   (d) 10

5. Which of the following rational numbers is in its simplest form?

   (a) $\frac{15}{20}$

(b) $\frac{16}{25}$

(c) $\frac{21}{14}$

(d) $\frac{-9}{27}$

6. The reciprocal of $\frac{-1}{5}$ is:

(a) 5

(b) -5

(c) $\frac{1}{5}$

(d) 0

7. The value of x for which $\frac{x}{6}$ and $\frac{-15}{18}$ are equivalent is:

(a) 5

(b) -5

(c) 3

(d) -3

8. If we multiply a rational number by its additive inverse, the result is:

(a) 1

(b) 0

(c) Always negative or zero

(d) Always positive

9. Subtract $\frac{-3}{4}$ from its reciprocal.

(a) $\frac{-7}{12}$

(b) $\frac{-25}{12}$

(c) $\frac{7}{12}$

(d) $\frac{25}{12}$

10. The representation of $\frac{-3}{5}$ on the number line is between:

(a) 0 and 1

(b) -1 and 0

(c) -1 and -2

(d) 1 and 2

11. If $x = \frac{2}{3}$ and $y = \frac{3}{2}$, then $x \div y$ is:

(a) 1

(b) $\frac{4}{9}$

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

(d) -1

12. A rational number $\frac{p}{q}$ is positive if:

(a) p, q are both positive

(b) p, q are both negative

(c) Either (a) or (b)

(d) p is positive and q is negative

13. Divide the sum of $\frac{1}{2}$ and $\frac{1}{3}$ by their product.

(a) 5

(b) $\frac{1}{5}$

(c) $\frac{5}{6}$

(d) 6

14. Which is larger: $|-\frac{1}{2}|$ or $|\frac{1}{4}|$?

(a) $|-\frac{1}{2}|$

(b) $|\frac{1}{4}|$

(c) Both are equal

(d) None

15. Find y if $\frac{4}{9} + y = 1$.

(a) $\frac{5}{9}$

(b) $\frac{-5}{9}$

(c) $\frac{13}{9}$

(d) $\frac{4}{9}$