Test: Rational Number Class 8 CBSE

Note: (1) Think and Answer (2) Marks will be awarded for right answers only

Name: **Date:**

Areas of improvement:

Maximum Marks	
Marks Obtained	
%	

Parent's Signature	**Parent's Signature**

Section – A

Q1. Additive inverse of −2/−5 is
(a) 2/5
(b) 5/2
(c) 2/−5
(d) 5/−2

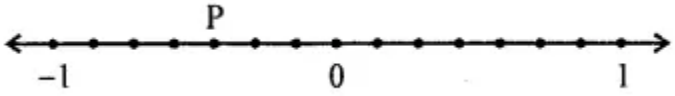
Q2. Sum of a rational number and its additive inverse is
(a) 1
(b) 0
(c) -1
(d) None of these

Q3. Rational numbers are not closed under
(a) addition
(b) subtraction
(c) multiplication
(d) division

Q4. Multiplication of a non-zero rational number and its reciprocal is
(a) 0
(b) 1
(c) -1
(d) None of these

Q5. The sum of the rational number 4/7 and its reciprocal is
(a) 28/65
(b) 65/28
(c) −28/65
(d) −65/28

Q6. The rational number represented by the point P on the number line is



(a) −5/7
(b) −3/7
(c) −5/8
(d) −4/8

Section – B

Q7. If a = −11/27, b = 4/9 and c = −5/18, then verify that a + (b + c) = (a + b) + c

Q8. If x = 4/9, y = −7/12 and z = −2/3, then verify that x – (y – z) ≠ (x – y) – z

Q9. If p = −8/27, q = 3/4 and r = −12/15, then verify that
(i) p × (q × r) = (p × q) × r
(ii) p × (q – r) = p × q – p × r

Q10. If p = −3/2, q = 4/5 and r = −7/12, then verify that (p ÷ q) ÷ r ≠ p ÷ (q ÷ r).

Section - C

Q11. Write five rational numbers which are smaller than -4.

Q12. Find three rational numbers between -2 and -1.

Q13. If the product of two rational numbers is 25/42 and one of them $-2\frac{6}{7}$, find the other.

Section – D (Any one)

Q14. The population of the city is 6,63,432. If 1/2 of the population are adult males and 1/3 of the population are adult females, then find the number of children in the city.

Q15. Using the appropriate properties of operations of rational numbers, evaluate the following:

(*i*) $\frac{2}{5} \times \frac{-3}{7} - \frac{1}{14} - \frac{3}{7} \times \frac{3}{5}$

(*ii*) $\frac{8}{9} \times \frac{4}{5} + \frac{5}{6} - \frac{9}{5} \times \frac{8}{9}$

(*iii*) $\frac{-3}{7} \times \frac{14}{15} \times \frac{7}{12} \times \left(\frac{-30}{35}\right)$