



**VIII Mathematics Chapter- Rational Number
CBSE TEST PAPER-01**

1. Write:

- (i) The rational number that does not have a reciprocal.
- (ii) The rational numbers that is equal to their reciprocals.
- (iii) The rational number that is equal to its negative.
- (iv) The additive inverse of a negative number



2. Fill in the blanks.

- (i) Zero has _____ reciprocal.
- (ii) The numbers _____ and _____ are their own reciprocals
- (iii) The reciprocal of -5 is _____.
- (v) The product of two rational numbers is always a _____.
- (vi) The reciprocal of a positive rational number is _____.
- (vii) The number which can be written in the form of p/q , where $q \neq 0$, is called _____ number.
(A) Rational (B) Irrational (C) Real (D) Natural
- (viii) All rational numbers have multiplicative inverse except _____ .
(A) -1 (B) 1 (C) 0 (D) None
- (ix) The sum of any two rational numbers is a _____ number.
(A) Even (B) Real (C) Rational (D) Natural
- (x). 1 A rational number p/q is said to be in the simplest form if the HCF of p and q is
(a) 2 (b) 1 (c) 0 (d) 3
- (xi) Between any two distinct rational numbers there exist
(a) Finite rational numbers (b) Infinite rational numbers
(a) No rational number (d) none of the above
- (xii) A rational number a/b is greater than c/d if
(a) $ad > bc$ (b) $ad < bc$ (c) $ad = bc$ (d) $ad \neq bc$
- (xiii) $.4$ Is zero a rational number
(a) Yes (b) No (c) Can't say
- (xiv) Rational numbers are not closed under
(a) Addition (b) Multiplication (c) Division (d) Subtraction
- (xv) If the additive inverse of "b" is "a" then:
(A) $ab=1$ (B) $a=b$ (C) $a+b=0$ (D) $a-b=0$



3. Solve:

- 1. If you subtract $1/2$ from a number and multiply the result by $1/2$, you get $1/8$. What is the number?
- 2. Three consecutive integers are such that when they are taken in increasing order and multiplied by 2 , 3 , and 4 respectively, they add up to 74 . Find these numbers.
- 4. Represent the following rational numbers on the number line
(a) $-1/4$ (b) $-11/5$ (c) $-38/5$ (d) $-7/10$ (e) $-5/3$
- 5. Find two rational numbers between (i) -2 and 2 . (ii) -1 and 0 .
- 6. Insert six rational numbers between (i) $-1/3$ and $-2/3$ (ii) $1/4$ and $1/2$