CBSE 8th Class Mathematics

Chapter Rational Number

CBSE TEST PAPER - 02

1. The numbers _____ and _____ are their own reciprocals

(a) 1 and 0

(b) 1 and −1

(c) −1 and 0

(d) none of these.

2. The reciprocal of − 5 is _____.

(a) 5

(b) 1

(c) − 1/5

(d) 1/5

3. Reciprocal of $1/x$, where $x \neq 0$ is _____.

(a) 1

(b) x

(c) 0

(d) none of these

4. The product of two rational numbers is always a _____.

(a) whole numbers

(b) integers

(c) natural numbers

(d) rational numbers

5. What number should be added to 7/12 to get   4/15 ?

(a) -19/60

(b) -11/30

(c) 51/60

(d) 1/20

6. The sum of two rational numbers is −1/2. If one of the numbers is 5/6, find the other.

7. What number should be subtracted from −2/3 to get −1/2?

8. Verify whether the given statement is true or not: (i) (59÷13) ÷ 52 = 59÷(13÷52)

9. Divide the sum of $1\frac{3}{5}$ and $-1\frac{2}{7}$ by the product of $-3\frac{1}{7}$ and $\frac{-1}{2}$

10. The product of two rational numbers is −16/9. If one of the numbers is −4/3, find the other.

11. After reading 7/9 of a book, 40 pages are left. How many pages are there in the book?

12. A drum full of rice weights $40\frac{1}{6}$ kg. If the empty drum weights $13\frac{3}{4}$ kg, find the weight of rice in the drum.

13. Raju earns Rs16000/month. He spends ¼ of his income on food; 3/10 of the remainder on house rent and 5/ 21of the remainder on education of children. How much money is still left with him?

14. Simplify using a suitable property

 (a) (-3/7) x 6/5 + (1/10) x3/2 − (6/5) x (1/14)

 (b) (-4/9) x (2/7) + (2/3) − (2/7) x (1/3)

 (d) (3/10) x (-3/7) − (6/7) + (3/5) x (3/7)

15. A tin holds $16\frac{1}{2}$ litres of oil. How many such tins will be required to hold $313\frac{1}{2}$ litres of oil?