

# BHARATH COACHING CENTRE

8<sup>th</sup> CBSE

Rational Numbers

Total: 40

Maths

Time: 1.30 hrs

## SECTION-A

5 X 1 = 5

1. The multiplicative inverse of  $\frac{1}{x}$  is \_\_\_\_\_.
2. Is commutativity of addition holds for  $x = \frac{5}{3}$ ,  $y = \frac{7}{9}$  \_\_\_\_\_
3. The additive and multiplicative identity is \_\_\_\_\_
4. There are \_\_\_\_\_ number of rational numbers between any number.
5. \_\_\_\_\_ should be subtracted from  $\frac{-3}{4}$  to get  $\frac{5}{6}$ ?

## SECTION-B

10 X 2 = 20

6. The sum of two numbers is  $\frac{5}{9}$ . If one of the numbers is  $\frac{1}{3}$ . Find the other.
7. What should be added to  $\frac{-7}{8}$  so as to get  $\frac{5}{9}$ ?
8. What should be subtracted from  $\frac{-5}{3}$  to get  $\frac{5}{6}$ .
9.  $\frac{-9}{14} + \dots = -1$
10. Simplify  $\left[\frac{13}{7} * \frac{11}{26}\right] - \left[\frac{-4}{3} * \frac{5}{6}\right]$
11. The product of two rational numbers is 15. If one of the numbers is -10. Find other.
12. The cost of  $7\frac{2}{3}$  metres of rope is Rs.  $12\frac{3}{4}$ . Find its cost per metre.
13.  $\frac{22}{27} \div \frac{-110}{18}$ , Find the standard form.
14. Simplify  $\frac{3}{5} + \frac{-7}{6} + \frac{2}{5} + \frac{-5}{6}$
15. Subtract  $\frac{-3}{5}$  from  $\frac{9}{10}$ .

## SECTION-C

5 X 3 = 15

16. Divide the sum of  $\frac{65}{12}$  and  $\frac{12}{7}$  by their difference.
17. If 24 trousers of equal size can be prepared in 54 metres of cloth, what length of cloth is required for each trouser?
18. By what number should we multiply  $\frac{3}{-14}$ , so that the product may be  $\frac{5}{12}$ .
19. Use distributive property over addition for  $x = \frac{-12}{5}$ ,  $y = \frac{-15}{4}$ ,  $z = \frac{8}{3}$ .
20. Use Associativity for  $x = \frac{-7}{3}$ ,  $y = \frac{12}{5}$ ,  $z = \frac{4}{9}$