

**\* Answer The Following Questions In One Sentence.[1 Marks Each]**

**[10]**

1. The negative of 1 is 1 itself
2. The population of India in 2004 - 05 is a rational number.
3. Every integer is a rational number.
4. Write the additive inverse of the following rational number:  
 $\frac{-2}{17}$
5. Find the multiplicative inverse (reciprocal) of the following rational numbers:  
 $\frac{0}{3}$
6. Is subtraction associative on rational numbers?
7. What is the negative of a negative rational number?
8. Find the multiplicative inverse (i.e., reciprocal) of:  
 $\frac{-3}{-5}$
9. Add the following rational numbers.  
2 and  $\frac{-5}{4}$
10. Name the property of multiplication shown by the following statement:

$$\left(\frac{-2}{3} \times \frac{7}{8}\right) \times \frac{-5}{7} = \frac{-2}{3} \times \left(\frac{7}{8} \times \frac{-5}{7}\right)$$

**\* Questions With Calculation.[2 Marks Each]**

**[8]**

11. Verify the property  $x \times (y \times z) = (x \times y) \times z$  of rational numbers by using:  
 $x = 1$ ,  $y = \frac{-1}{2}$  and  $z = \frac{1}{4}$
12. Evaluate the following:  
 $\frac{-5}{14} - \frac{-2}{7}$
13. Express the following rational numbers in standard form.  
 $\frac{-12}{30}$
14. An aeroplane covers 1020km in an hour. How much distance will it cover in  $4\frac{1}{6}$  hours?

**\* Questions With Calculation.[3 Marks Each]**

**[12]**

15. The cost of  $2\frac{1}{3}$  m metres of cloth is Rs.  $75\frac{1}{4}$  Find the cost of cloth per metre.
16. Simplify:  
 $\frac{-8}{19} + \frac{-4}{57}$
17. The product of two fractions is  $9\frac{3}{5}$ . If one of the fractions is  $9\frac{3}{7}$ , find the other.
18. Using the rearrangement property find the sum:  
 $\frac{-13}{20} + \frac{11}{14} + \frac{-5}{7} + \frac{7}{10}$

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