

## Chapter—9

# Rational Numbers

---

---

1. Find the Sum:

(a)  $-2\frac{1}{3} + 4\frac{3}{5}$       (b)  $\frac{-8}{19} + \frac{(-2)}{57}$

2. Find :

(a)  $\frac{-6}{13} - \left(\frac{-7}{15}\right)$       (b)  $-2\frac{1}{9} - 6$

3. Find the product :

(a)  $\frac{-6}{5} \times \frac{9}{11}$       (b)  $\frac{3}{-5} \times \frac{-5}{3}$

4. Find the value of :

(a)  $\frac{-4}{5} \div (-3)$       (b)  $\frac{-7}{12} \div \left(\frac{-2}{13}\right)$

5. Fill in the boxes with the correct symbol out of  $>$ ,  $<$  and  $=$

(a)  $\frac{-7}{4}$    $\frac{-8}{5}$       (b)  $\frac{-5}{11}$    $\frac{5}{11}$

(c)  $\frac{1}{-3}$    $\frac{-1}{4}$

6. Which is greater in the following numbers?

$-3\frac{2}{7}, -3\frac{4}{5}$

7. The product of two rational numbers is  $\frac{-4}{5}$ . If one of them is  $\frac{8}{35}$ , find the other.

8. (a) What should be added to  $\frac{-5}{8}$  to get  $\frac{2}{9}$ ?

(b) Find three rational numbers between 0 and 1.

9. Find three rational numbers is  $\frac{-17}{27}$ . If one fo them is  $\frac{-11}{27}$  find the other.

10. Simplify :

(a)  $\frac{(-4)}{9} \times \frac{3}{5} \times \frac{(-9)}{10}$

(b)  $\left[ \frac{2}{7} + \frac{3}{49} \right] \left[ \frac{-7}{15} \right]$

(c)  $\frac{2}{3} + \frac{3}{4} + \frac{1}{12}$

(d)  $(4.3 - 2.3) \times 6.3$

(e)  $\left[ \frac{-28}{27} \right] \div \left[ \frac{-5}{9} \right]$

11. Arrange  $\frac{-7}{8}, \frac{-5}{6}, \frac{-3}{4}$  in the ascending order.

12. Find the additive inverse of  $\frac{5}{7} - \frac{3}{7}$

13. Find the multiplicative inverse of  $\frac{2}{11} + \frac{4}{9}$

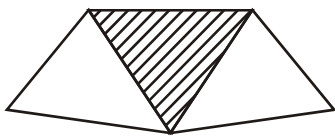
14. Find the reciprocal of  $\frac{-7}{26} + \left( \frac{-11}{39} \right)$

15. Jaspal donates  $\left( \frac{1}{5} \right)^{th}$  part of his monthly income and deposited  $\left( \frac{1}{6} \right)^{th}$  part in the bank and expenditure the remaining income.

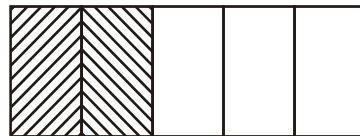
(a) Find the part of expenditure of his montly income.

(b) State two good habits of Jaspal mentioned on the basis of above questions.

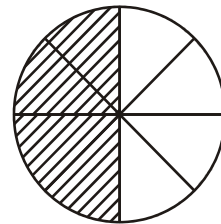
16. In the given figure represent the shaded region in the form of rational number.



(a)



(b)



(c)