

Chapter—1

Rational Numbers

1. Which of the following is not a rational number :

- (a) $\frac{11}{17}$ (b) $\frac{160}{0}$ (c) 117 (d) $5\frac{1}{2}$

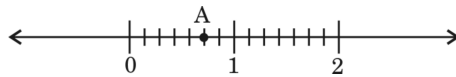
2. Find the sum :

- (i) $\frac{3}{16} + \frac{2}{8}$ (ii) $\frac{-3}{25} + \frac{9}{20}$ (iii) $\frac{-1}{5} - \frac{1}{3}$ (iv) $2\frac{1}{12} + \frac{-5}{36}$

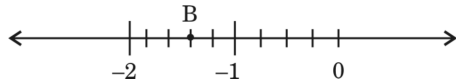
3. (i) What is the additive inverse of $\frac{-7}{11}$?

(ii) What is the multiplicative inverse of $2\frac{3}{11} \times \frac{1}{3}$?

4. (i) A represents which number on the number line?



(ii) B represents which number on the number line?



(iii) Represent $\frac{9}{11}$ on number line.

5. (i) Which number lies between $\frac{1}{5}$ and $\frac{1}{4}$?

- (a) $\frac{1}{8}$ (b) $\frac{9}{40}$ (c) $\frac{1}{9}$ (d) $\frac{1}{20}$

(ii) Write 10 rational numbers between $\frac{-4}{5}$ and $+\frac{4}{7}$.

(iii) Find a rational number between $\frac{1}{6}$ and $\frac{1}{3}$.

6. Find the product of $\frac{3}{8}$ and the reciprocal of $\frac{-5}{17}$.

7. A tailor needs $\left(\frac{9}{10}\right)^{\text{th}}$ of a metre of cloth to stitch a blouse. If he wants to stitch 100 blouses how much cloth will be needed?
8. Simplify :
- (i) $\left(\frac{3}{4} + \frac{4}{5}\right) + \frac{1}{5}$ (ii) $\left(\frac{-7}{8} \times \frac{5}{6}\right) \times \frac{-6}{9}$
9. Find $(x + y) \div (x - y)$ if
 $x = \frac{1}{10}$, $y = \frac{9}{5}$
10. The sum of the additive inverse and multiplicative inverse of 3 is _____.
11. Simplify
 $\frac{5}{8} + \frac{9}{2} + \left(\frac{-4}{5}\right) + \frac{7}{8} + \left(\frac{-5}{2}\right) + \frac{7}{5}$
12. The number which is subtracted from $\frac{29}{13}$ to get $\frac{-5}{7}$ is _____.
13. The value of x for which the two rational numbers $\frac{4}{9}$, $\frac{x}{54}$ are equivalent.
14. $\frac{5}{6}$ of all the money in Salma's bank account is ₹ 55,000. How much money does Salma have in her bank account?
15. Arrange the number $\frac{1}{4}$, $\frac{13}{16}$ & $\frac{5}{8}$ in the ascending order.