



EXERCISE 5.3

1. Multiply :

(i) $\frac{-3}{5}$ by $\frac{5}{7}$

(ii) $\frac{-2}{7}$ by (-3)

(iii) (-2) by $\frac{3}{11}$

(iv) $\frac{-3}{7}$ by (-5)

(v) $\left(\frac{-2}{9}\right)$ by (-5)

(vi) $\frac{-3}{2}$ by $\frac{4}{7}$

(vii) $\frac{-8}{15}$ by $\frac{25}{10}$

(viii) $\frac{-5}{8}$ by $\left(\frac{-3}{7}\right)$

2. Find the product :

(i) $\frac{-7}{5} \times \frac{9}{2}$

(ii) $(-5) \times \frac{3}{10}$

(iii) $\frac{3}{7} \times \left(\frac{-3}{5}\right)$

(iv) $\frac{-6}{11} \times \frac{9}{5}$

(v) $\frac{4}{11} \times \frac{3}{5}$

(vi) $\frac{-2}{3} \times \frac{7}{8}$

(vii) $-8 \times \left(\frac{-21}{4}\right)$

(viii) $-15 \times \left(\frac{3}{-5}\right)$

3. Evaluate the following :

(i) $\frac{-7}{12} \times \left(-2\frac{6}{7}\right)$

(ii) $-1\frac{2}{9} \times \left(\frac{21}{-44}\right)$

(iii) $-15 \times 1\frac{2}{5}$

(iv) $-1\frac{1}{9} \times \left(-5\frac{8}{11}\right)$

(v) $1\frac{1}{12} \times 2\frac{2}{3}$

(vi) $4\frac{2}{7} \times 2\frac{4}{5}$

(vii) $1\frac{1}{6} \times (-24)$

4. Find the reciprocal of :

(i) $\frac{2}{5} \times \frac{3}{7}$

(ii) $\frac{-7}{25}$

(iii) $\frac{-1}{13}$

(iv) $\frac{-7}{9} \times \frac{3}{14}$

5. Verify : $x \times (y + z) = (x \times y) + (x \times z)$, if $x = \frac{-3}{2}$, $y = \frac{4}{3}$ and $z = -1$.

6. Simplify :

(i) $\frac{-5}{3} \times \left[-\frac{1}{2} + \left(\frac{-3}{5}\right)\right]$

(ii) $\frac{-2}{9} \times \left(\frac{3}{7} + \frac{4}{5}\right)$

7. Simplify :

(i) $\left(2 \times \frac{3}{4}\right) + \left[\frac{4}{5} + \left(\frac{3}{-2}\right)\right]$

(ii) $\left[\frac{20}{8} \times \left(\frac{-24}{15}\right)\right] - \left[8 \times \left(\frac{1}{-2}\right)\right]$

8. Fill in the blanks :

(i) $\frac{-3}{5} \times \square = \frac{3}{5}$

(ii) $\frac{-5}{7} \times \square = -1$

(iii) $\square \times \frac{-9}{11} = 0$

(iv) $\frac{6}{27} \times \square = 1$

(v) $\frac{-9}{13} \times \square = \frac{27}{39}$

(vi) $\frac{-36}{7} \times \square = -18$

9. Find the cost of $5\frac{3}{4}$ m of cloth at ₹ $42\frac{2}{3}$ per metre.

10. Find the area of rectangular park of length $13\frac{1}{2}$ m and breadth $11\frac{2}{3}$ m.