## Exercise 2C

01

## Answer:

- (i) Reciprocal of  $\frac{5}{8}$  =  $\frac{8}{5}$  [  $\because \frac{5}{8} \times \frac{8}{5} = 1$ ]

- (iv) Reciprocal of  $12\,\frac{3}{5}$  = Reciprocal of  $\frac{63}{5}$  =  $\frac{5}{63}$   $[\because \frac{63}{5} \times \frac{5}{63} = 1]$

02

## Answer:

- (i)  $\frac{4}{7} \div \frac{9}{14} = \frac{4}{7} \times \frac{14}{9}$  [: Reciprocal of  $\frac{9}{14} = \frac{14}{9}$ ]
- (ii)  $\frac{7}{10} \div \frac{3}{5} = \frac{7}{10} \times \frac{5}{3}$  [: Reciprocal of  $\frac{3}{5} = \frac{5}{3}$ ]

  - $=\frac{7}{6}=1\frac{1}{6}$
- (iii)  $\frac{8}{9} \div 16 = \frac{8}{9} \times \frac{1}{16}$  [: Reciprocal of 16 =  $\frac{1}{16}$ ]
  - $=\frac{1}{18}$
- (iv)  $9 \div \frac{1}{3} = 9 \times 3$  [: Reciprocal of  $\frac{1}{3}$  = 3]

(v) 
$$24 \div \frac{6}{7} = 24 \times \frac{7}{6}$$
 [: Reciprocal of  $\frac{6}{7} = \frac{7}{6}$ ] 
$$= 4 \times 7 = 28$$

(vi) 
$$3\frac{3}{5} \div \frac{4}{5} = \frac{18}{5} \div \frac{4}{5}$$

$$= \frac{18}{5} \times \frac{5}{4} \qquad [\because \text{Reciprocal of } \frac{4}{5} = \frac{5}{4}]$$

$$= \frac{18}{4} = \frac{9}{2} = 4\frac{1}{2}$$

(vii) 
$$3\frac{3}{7} \div \frac{8}{21} = \frac{24}{7} \div \frac{8}{21}$$

$$= \frac{24}{7} \times \frac{21}{8} \qquad [\because \text{Reciprocal of } \frac{8}{21} = \frac{21}{8}]$$

$$= 3 \ 3 = 9$$

(viii) 
$$5\frac{4}{7} \div 1\frac{3}{10} = \frac{39}{7} \div \frac{13}{10}$$

$$= \frac{39}{7} \times \frac{10}{13} \qquad [\because \text{Reciprocal of } \frac{13}{10} = \frac{10}{13}]$$

$$= \frac{30}{7} = 4\frac{2}{7}$$

(ix) 
$$15\frac{3}{7} \div 1\frac{23}{49} = \frac{108}{7} \div \frac{72}{49}$$

$$= \frac{108}{7} \times \frac{49}{72} \qquad [\because \text{Reciprocal of } \frac{72}{49} = \frac{49}{72}]$$

$$= \frac{9 \times 7}{1 \times 6} = \frac{3 \times 7}{1 \times 2} = \frac{21}{2} = 10\frac{1}{2}$$

\*\*\*\*\*\*\*\*\* END \*\*\*\*\*\*\*