

EXE- 8-A.

Q2- multiply

④ 3 by $\frac{2}{13}$

Sol -

$$= 3 \times \frac{2}{13}$$

$$= \frac{6}{13} \text{ Ans.}$$

⑤ 8 by $\frac{2}{25}$

Sol -

$$= 8 \times \frac{2}{25}$$

$$= \frac{16}{25} \text{ Ans.}$$

⑥ 10 by $\frac{4}{15}$

Sol -

$$= 10 \times \frac{4}{15}$$

$$= \frac{8}{3} = 2\frac{2}{3} \text{ Ans.}$$

⑦ 18 by $\frac{5}{24}$

Sol -

$$= 18 \times \frac{5}{24}$$

$$= \frac{15}{4} = 3\frac{3}{4} \text{ Ans.}$$

Q3④ $\frac{2}{13}$ by 6

Sol -

$$= \frac{2}{13} \times 6$$

$$= \frac{12}{13} \text{ Ans.}$$

⑤ $\frac{4}{33}$ by 11

Sol -

$$= \frac{4}{33} \times 11$$

$$= \frac{4}{3} = 1\frac{1}{3} \text{ Ans.}$$

⑥ $\frac{7}{40}$ by 8

Sol -

$$= \frac{7}{40} \times 8$$

$$= \frac{7}{5} = 1\frac{2}{5} \text{ Ans.}$$

⑦ $\frac{5}{32}$ by 32

Sol -

$$= \frac{5}{32} \times 32 = 5 \text{ Ans.}$$

Q4④ $5 \times \frac{3}{11}$

Sol -

$$= \frac{5 \times 3}{11} = \frac{15}{11} = 1\frac{4}{11} \text{ Ans.}$$

⑤ $8 \times \frac{5}{6}$

Sol -

$$= 8 \times \frac{5}{6} = \frac{20}{3} = 6\frac{2}{3} \text{ Ans.}$$

⑥ $24 \times \frac{9}{84}$

Sol -

$$= 24 \times \frac{9}{84}$$

$$= \frac{18}{7} = 2\frac{4}{7} \text{ Ans.}$$

⑦ $91 \times \frac{5}{13}$

Sol -

$$= 91 \times \frac{5}{13}$$

$$= 35 \text{ Ans.}$$

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$$Q5 @ \frac{8}{15} \times 10$$

$$\text{Sol - } = \frac{8}{15} \times 10^2$$

$$= \frac{16}{3} = 5\frac{1}{3} \text{ Ans.}$$

$$(b) \frac{2}{27} \times 14$$

$$\text{Sol - } = \frac{2}{27} \times 14$$

$$= \frac{28}{27} = 1\frac{1}{27} \text{ Ans.}$$

$$(c) \frac{53}{112} \times 32$$

$$\text{Sol - } = \frac{53}{112} \times 32$$

$$= \frac{106}{7} = 15\frac{1}{7} \text{ Ans}$$

$$(d) \frac{10}{21} \times 105$$

$$\text{Sol - } = \frac{10}{21} \times 105$$

$$= 50 \text{ Ans.}$$

$$Q6 @ 1 \times \frac{17}{19}$$

$$\text{Sol - } = \frac{1 \times 17}{19} = \frac{17}{19} \text{ Ans.}$$

$$(b) \frac{19}{35} \times 1$$

$$\text{Sol - } = \frac{19 \times 1}{35} = \frac{19}{35} \text{ Ans.}$$

$$(c) \frac{21}{100} \times 0$$

$$\text{Sol - } = \frac{21 \times 0}{100}$$

$$= 0 \text{ Ans.}$$

$$(d) 0 \times \frac{3}{10}$$

$$\text{Sol - } = \frac{0 \times 3}{10}$$

$$= 0 \text{ Ans.}$$

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Multiply.

Q1 @ $\frac{1}{4}$ by $\frac{3}{5}$

Sol - $= \frac{1}{4} \times \frac{3}{5}$

$$= \frac{1 \times 3}{4 \times 5} = \frac{3}{20} \text{ Ans.}$$

Q2 @ $\frac{12}{25}$ by $\frac{5}{6}$

Sol - $= \frac{12}{25} \times \frac{5}{6}$

$$= \frac{2}{5} \text{ Ans.}$$

Q3 @ $\frac{3}{7}$ by $\frac{28}{45}$

Sol - $= \frac{3}{7} \times \frac{28}{45} = \frac{4}{15} \text{ Ans.}$

Q4 @ $2\frac{1}{3}$ by 6

Sol - $= \frac{7}{3} \times 6 = 14 \text{ Ans.}$

Q5 @ $3\frac{3}{7}$ by 21

Sol - $= \frac{24}{7} \times 21 = 72 \text{ Ans.}$

Q6 @ $5\frac{2}{9}$ by 12

Sol - $= \frac{47}{9} \times 12 = \frac{188}{3} = 62\frac{2}{3} \text{ Ans.}$

Q3 @ $\frac{5}{8} \times \frac{7}{11}$

Sol - $= \frac{5 \times 7}{8 \times 11} = \frac{35}{88} \text{ Ans.}$

Q4 @ $\frac{9}{25} \times \frac{3}{4}$

Sol - $= \frac{9}{25} \times \frac{3}{4} = \frac{27}{100} \text{ Ans.}$

Q5 @ $\frac{10}{121} \times \frac{11}{15}$

Sol - $= \frac{10}{121} \times \frac{11}{15} = \frac{2}{33} \text{ Ans.}$

Q6 @ $\frac{8}{9} \times \frac{27}{16}$

Sol - $= \frac{8}{9} \times \frac{27}{16} = \frac{3}{2} = 1\frac{1}{2} \text{ Ans.}$

Q7 @ $\frac{3}{5} \times \frac{21}{12}$

Sol - $= \frac{3}{5} \times \frac{21}{12} = \frac{21}{20} = 1\frac{1}{20} \text{ Ans.}$

Q8 @ $\frac{5}{4} \times \frac{16}{15}$

Sol - $= \frac{5}{4} \times \frac{16}{15} = \frac{4}{3} = 1\frac{1}{3} \text{ Ans.}$

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Q5@ $3\frac{1}{6} \times \frac{18}{19}$
 Sol- $= \frac{19}{6} \times \frac{18}{19} = 3 \text{ Ans.}$

⑤ $5\frac{3}{8} \times \frac{12}{13}$
 Sol- $= \frac{43}{8} \times \frac{12}{13} = \frac{129}{26} = 4\frac{25}{26} \text{ Ans.}$

⑥ $2\frac{3}{10} \times \frac{15}{23}$
 Sol- $= \frac{23}{10} \times \frac{15}{23} = \frac{3}{2} = 1\frac{1}{2} \text{ Ans.}$

Q6@ $\frac{3}{13} \times 2\frac{1}{6}$
 Sol- $= \frac{3}{13} \times \frac{13}{6} = \frac{1}{2} \text{ Ans.}$

⑦ $\frac{5}{16} \times 3\frac{1}{5}$
 Sol- $= \frac{5}{16} \times \frac{16}{5} = 1 \text{ Ans.}$

⑧ $\frac{9}{50} \times 8\frac{1}{3}$
 Sol- $= \frac{9}{50} \times \frac{25}{3} = \frac{3}{2} = 1\frac{1}{2} \text{ Ans.}$

Q7@ $5\frac{1}{2} \times 15$
 Sol- $= \frac{61}{12} \times \frac{5}{1} = \frac{305}{4} = 76\frac{1}{4} \text{ Ans.}$

⑨ $6\frac{3}{8} \times 12$
 Sol- $= \frac{51}{8} \times \frac{12}{1} = \frac{153}{2} = 76\frac{1}{2} \text{ Ans.}$

⑩ $39 \times 3\frac{8}{13}$
 Sol- $= 39 \times \frac{47}{13} = 141 \text{ Ans.}$

Q8@ $4\frac{1}{2} \times 2\frac{1}{3}$
 Sol- $= \frac{9}{2} \times \frac{7}{3} = \frac{21}{2} = 10\frac{1}{2} \text{ Ans.}$

⑪ $3\frac{1}{4} \times 1\frac{1}{3}$
 Sol- $= \frac{13}{4} \times \frac{4}{3} = \frac{13}{3} = 4\frac{1}{3} \text{ Ans.}$

⑫ $7\frac{3}{5} \times 2\frac{1}{19}$
 Sol- $= \frac{38}{5} \times \frac{45}{19} = 18 \text{ Ans.}$

⑬ $8\frac{5}{11} \times 2\frac{1}{5}$
 Sol- $= \frac{93}{11} \times \frac{11}{5} = \frac{93}{5} = 18\frac{3}{5} \text{ Ans.}$

⑭ $9\frac{11}{13} \times 1\frac{13}{16}$
 Sol- $= \frac{128}{13} \times \frac{29}{16} = \frac{232}{13} = 17\frac{11}{13} \text{ Ans.}$

$$Q8: 10\frac{1}{2} \times 2\frac{3}{7}$$

$$\text{Sol} - = \frac{21}{2} \times \frac{17}{7} = \frac{51}{2} = 25\frac{1}{2} \text{ Ans.}$$

$$Q9: \frac{15}{8} \times \frac{4}{5}$$

$$\text{Sol} - = \frac{15}{8} \times \frac{4}{5} = \frac{3}{2} = 1\frac{1}{2} \text{ Ans.}$$

$$Q10: 60 \times 7\frac{5}{24}$$

$$\text{Sol} - = 60 \times \frac{173}{24} = \frac{865}{2} = 432\frac{1}{2} \text{ Ans.}$$

$$Q11: \frac{16}{75} \times \frac{15}{24}$$

$$\text{Sol} - = \frac{16}{75} \times \frac{15}{24} = \frac{2}{15} \text{ Ans.}$$

$$Q12: \frac{4}{3} \times \frac{15}{8}$$

$$\text{Sol} - = \frac{4}{3} \times \frac{15}{8} = \frac{5}{2} = 2\frac{1}{2} \text{ Ans.}$$

$$Q13: 3\frac{4}{27} \times \frac{18}{25}$$

$$\text{Sol} - = \frac{85}{27} \times \frac{18}{25} = \frac{34}{15} = 2\frac{4}{15} \text{ Ans.}$$

$$Q14: \frac{5}{41} \times 8\frac{1}{5}$$

$$\text{Sol} - = \frac{5}{41} \times \frac{41}{5} = 1 \text{ Ans.}$$

$$Q15: 6\frac{2}{3} \times 1\frac{9}{10}$$

$$\text{Sol} - = \frac{20}{3} \times \frac{19}{10} = \frac{38}{3} = 12\frac{2}{3} \text{ Ans.}$$

$$Q16: 11\frac{1}{5} \times 1\frac{17}{28}$$

$$\text{Sol} - = \frac{56}{5} \times \frac{45}{28} = 18 \text{ Ans.}$$

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Find —

Q1 a) $\frac{1}{3}$ of 21

Sol — $\frac{1}{3} \times 21$

$= 7 \text{ Ans.}$

b) $\frac{2}{5}$ of 40

Sol — $= \frac{2}{5} \times 40$

$= 16 \text{ Ans.}$

c) $\frac{3}{8}$ of 80

Sol — $= \frac{3}{8} \times 80$

$= 30 \text{ Ans.}$

d) $\frac{3}{4}$ of 100

Sol — $= \frac{3}{4} \times 100$

$= 75 \text{ Ans.}$

e) $\frac{5}{12}$ of 30

Sol — $= \frac{5}{12} \times 30$

$= \frac{25}{2} = 12\frac{1}{2} \text{ Ans.}$

Q2 a) $\frac{7}{15}$ of 80

Sol — $= \frac{7}{15} \times 80$

$= \frac{112}{3} = 37\frac{1}{3} \text{ Ans.}$

b) $\frac{9}{10}$ of 100

Sol — $= \frac{9}{10} \times 100$

$= 90 \text{ Ans.}$

c) $\frac{13}{30}$ of 100

Sol — $= \frac{13}{30} \times 100$

$= \frac{130}{3} = 43\frac{1}{3} \text{ Ans.}$

Q2 a) $\frac{1}{2}$ of $\frac{3}{8}$

Sol — $= \frac{1}{2} \times \frac{3}{8}$

$= \frac{1 \times 3}{2 \times 8}$

$= \frac{3}{16} \text{ Ans.}$

b) $\frac{3}{5}$ of $\frac{15}{39}$

Sol — $= \frac{3}{5} \times \frac{15}{39}$

$= \frac{3}{13} \text{ Ans.}$

Q2 (a) $\frac{3}{4}$ of $3\frac{2}{3}$

Sol - $\frac{3}{4} \times \frac{11}{3}$

$= \frac{11}{4} = 2\frac{3}{4}$ Ans.

(b) $2\frac{3}{10}$ of 40

Sol - $\frac{23}{10} \times 40$

$= 92$ Ans.

Q3:- Fill in the blanks -

(a) $\frac{1}{4}$ of a rupee = paise

Sol - 1 rupee = 100 paise
 $= \frac{1}{4} \times 100$

$= 25$ paise Ans.

(b) $\frac{3}{8}$ of ₹ 15 = ₹

Sol - $= \frac{3}{8} \times 15 = \frac{45}{8} = ₹ 5\frac{5}{8}$ Ans

(c) $\frac{4}{5}$ of a rupee = paise

Sol: 1 rupee = 100 paise
 $= \frac{4}{5} \times 100$

$= ₹ 80$ Ans.

Q3 (d) $\frac{7}{10}$ of ₹ 50 = ₹

Sol: -

$= \frac{7}{10} \times 50 = ₹ 35$ Ans

(e) $\frac{4}{8}$ of a rupee = paise

Sol - $= \frac{4}{8} \times 100$

$= 50$ paise

(f) $\frac{5}{12}$ of ₹ 60

Sol - $= \frac{5}{12} \times 60$

$= ₹ 25$ Ans.

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$$Q4 @ \frac{3}{5} \text{ of a kg} = \text{--- g}$$

$$\text{Sol- } 1 \text{ kg} = 1000 \text{ g}$$

$$= \frac{3}{5} \times 1000$$

$$= 600 \text{ g Ans.}$$

$$(b) \frac{5}{9} \text{ of } 45 \text{ kg} = \text{--- kg}$$

Sol-

$$= \frac{5}{9} \times 45$$

$$= 25 \text{ kg Ans.}$$

$$(c) \frac{8}{15} \text{ of } 60 \text{ kg} = \text{--- kg}$$

Sol-

$$= \frac{8}{15} \times 60$$

$$= 32 \text{ kg Ans.}$$

$$(d) \frac{69}{100} \text{ of a kg} = \text{--- g}$$

Sol-

$$1 \text{ kg} = 1000 \text{ g}$$

$$= \frac{69}{100} \times 1000$$

$$= 690 \text{ g Ans.}$$

$$(e) \frac{16}{45} \text{ of } 90 \text{ kg} = \text{--- kg}$$

Sol-

$$= \frac{16}{45} \times 90$$

$$= 32 \text{ kg Ans.}$$

$$(f) \frac{8}{27} \text{ of } 81 \text{ kg}$$

Sol-

$$= \frac{8}{27} \times 81$$

$$= 24 \text{ kg.}$$

$$Q5 @ \frac{7}{10} \text{ of a km} = \text{--- m}$$

Sol-

$$1 \text{ km} = 1000 \text{ m}$$

$$= \frac{7}{10} \times 1000$$

$$= 700 \text{ m Ans.}$$

$$(b) \frac{4}{5} \text{ of 1 metre} = \text{--- cm}$$

Sol-

$$1 \text{ m} = 100 \text{ cm}$$

$$= \frac{4}{5} \times 100$$

$$= 80 \text{ cm Ans.}$$

$$(c) \frac{3}{16} \text{ of } 80 \text{ km} = \text{--- km}$$

Sol-

$$= \frac{3}{16} \times 80$$

$$= 15 \text{ km Ans.}$$

$$Q6 @ \frac{11}{20} \text{ of 1 litre} = \text{--- ml}$$

Sol-

$$1 \text{ l} = 1000 \text{ ml}$$

$$= \frac{11}{20} \times 1000$$

$$= 550 \text{ ml Ans.}$$

$$(b) \frac{3}{14} \text{ of } 56 \text{ l} = \text{--- l}$$

Sol-

$$= \frac{3}{14} \times 56$$

$$= 12 \text{ l Ans.}$$

$$(c) \frac{1}{100} \text{ of one litre} = \text{--- ml}$$

Sol-

$$1 \text{ l} = 1000 \text{ ml}$$

$$= \frac{1}{100} \times 1000$$

$$= 10 \text{ ml Ans.}$$

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EXE - 8-D

Write the reciprocal of: -

Q1 (a) $\frac{3}{5}$

Ans - $\frac{5}{3}$

(b) $\frac{2}{3}$

Ans - $\frac{3}{2}$

(c) $\frac{7}{8}$

Ans - $\frac{8}{7}$

(d) $\frac{12}{5}$

Ans - $\frac{5}{12}$

(e) $\frac{1}{8}$

Ans - $\frac{8}{1} = 8$

(f) $\frac{1}{10}$

Ans - $\frac{10}{1} = 10$

Q2 (a) $2\frac{2}{3}$

Sol - $2\frac{2}{3} = \frac{8}{3}$

Ans = $\frac{3}{8}$

(b) $3\frac{1}{4}$

Sol -

$3\frac{1}{4} = \frac{13}{4}$

Ans = $\frac{4}{13}$

(c) $4\frac{5}{7}$

Sol -

$4\frac{5}{7} = \frac{33}{7}$

Ans = $\frac{7}{33}$

(d) 5

Ans - $\frac{1}{5}$

(e) 6

Ans - $\frac{1}{6}$

(f) 1

Ans - $\frac{1}{1}$

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Q3 - Fill in the blanks -

$$a) \frac{3}{14} \times \frac{14}{3} = \underline{\quad}$$

$$\text{Sol} - \frac{\overset{1}{\cancel{3}}}{14} \times \frac{14}{\underset{1}{\cancel{3}}} = 1 \text{ Ans.}$$

$$b) \frac{5}{22} \times 4 \frac{2}{5}$$

$$\text{Sol} - \frac{\overset{1}{\cancel{5}}}{22} \times \frac{22}{\underset{5}{\cancel{5}}} = 1 \text{ Ans.}$$

$$c) \frac{7}{25} \times \underline{\quad} = 1$$

$$\text{Sol} - \frac{25}{7}$$

$$d) \underline{\quad} \times 3 \frac{1}{3} = 1$$

$$\text{Sol} - \frac{3}{10}$$

Divide:-

$$Q4@ \frac{1}{3} \text{ by } 2$$

$$\text{Sol} - \frac{1}{3} \div 2$$

$$= \frac{1}{3} \times \frac{1}{2} = \frac{1}{6} \text{ Ans.}$$

$$b) \frac{2}{7} \text{ by } 4$$

$$\text{Sol} - \frac{2}{7} \div 4$$

$$= \frac{\overset{1}{\cancel{2}}}{7} \times \frac{1}{4} = \frac{1}{14} \text{ Ans.}$$

$$Q4@ \frac{9}{16} \text{ by } 9$$

$$\text{Sol} - \frac{9}{16} \div 9 = \frac{\overset{1}{\cancel{9}}}{16} \times \frac{1}{\underset{9}{\cancel{9}}} = \frac{1}{16} \text{ Ans.}$$

$$Q5@ 3 \text{ by } \frac{9}{10}$$

$$\text{Sol} - 3 \div \frac{9}{10} = 3 \times \frac{10}{9} = \frac{10}{3} = 3 \frac{1}{3} \text{ Ans.}$$

$$b) 9 \text{ by } \frac{6}{17}$$

$$\text{Sol} - 9 \div \frac{6}{17} = 3 \times \frac{17}{\underset{2}{\cancel{6}}} = \frac{51}{2} = 25 \frac{1}{2} \text{ Ans.}$$

$$c) 15 \text{ by } \frac{5}{12}$$

$$\text{Sol} - 15 \div \frac{5}{12} = 3 \times \frac{12}{\underset{5}{\cancel{5}}} = 36 \text{ Ans.}$$

Q6@ $7\frac{1}{3}$ by 11

Sol- $= \frac{22}{3} \div 11$
 $= \frac{22}{3} \times \frac{1}{11} = \frac{2}{3}$ Ans.

(b) $5\frac{2}{5}$ by 18

Sol- $= \frac{27}{5} \div 18$
 $= \frac{27}{5} \times \frac{1}{18} = \frac{3}{10}$ Ans.

(c) 7 by $4\frac{3}{8}$

Sol- $= 7 \div \frac{35}{8}$
 $= 7 \times \frac{8}{35}$
 $= \frac{8}{5} = 1\frac{3}{5}$ Ans.

Q7@ $\frac{4}{9} \div \frac{2}{3}$

Sol- $= \frac{4}{9} \times \frac{3}{2} = \frac{2}{3}$ Ans.

(b) $\frac{2}{7} \div 4$

Sol- $= \frac{2}{7} \times \frac{1}{4} = \frac{1}{14}$ Ans.

(c) $\frac{9}{16} \div 9$

Sol- $= \frac{9}{16} \times \frac{1}{9}$
 $= \frac{1}{16}$ Ans.

Q8@ $2\frac{2}{5} \div \frac{8}{5}$

Sol- $= \frac{12}{5} \times \frac{5}{8} = \frac{3}{2}$
 $= 1\frac{1}{2}$ Ans.

(b) $5\frac{5}{12} \div \frac{5}{16}$

Sol- $= \frac{65}{12} \div \frac{5}{16}$
 $= \frac{65}{12} \times \frac{16}{5}$
 $= \frac{52}{3} = 17\frac{1}{3}$ Ans.

(c) $10\frac{3}{8} \div \frac{5}{36}$

Sol- $= \frac{83}{8} \times \frac{36}{5}$
 $= \frac{747}{10} = 74\frac{7}{10}$ Ans.

Q. 9@ $\frac{3}{16} \div 7\frac{3}{8}$

Sol- $= \frac{3}{16} \times \frac{8}{59}$
 $= \frac{3}{118}$ Ans.

(b) $\frac{4}{27} \div 3\frac{1}{9}$

Sol- $= \frac{4}{27} \times \frac{9}{28}$
 $= \frac{1}{21}$ Ans.

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$$Q9 \text{ (c)} \quad \frac{10}{33} \div 2\frac{8}{11}$$

$$\text{Sol-} = \frac{10}{33} \times \frac{11}{30}$$

$$= \frac{1}{9} \text{ Ans.}$$

$$Q10 \text{ (a)} \quad 3\frac{3}{8} \div 2\frac{1}{4}$$

$$\text{Sol-} = \frac{27}{8} \times \frac{4}{9}$$

$$= \frac{3}{2} = 1\frac{1}{2} \text{ Ans.}$$

$$\text{(b)} \quad 6\frac{3}{5} \div 5\frac{1}{2}$$

$$\text{Sol-} = \frac{33}{5} \div \frac{11}{2}$$

$$= \frac{33}{5} \times \frac{2}{11}$$

$$= \frac{6}{5} = 1\frac{1}{5} \text{ Ans.}$$

$$\text{(c)} \quad 10\frac{1}{2} \div 4\frac{2}{3}$$

$$\text{Sol-} = \frac{21}{2} \div \frac{14}{3}$$

$$= \frac{21}{2} \times \frac{3}{14}$$

$$= \frac{9}{4} = 2\frac{1}{4} \text{ Ans.}$$

$$Q11 \text{ (a)} \quad 7\frac{3}{5} \div 19$$

$$\text{Sol-} = \frac{38}{5} \times \frac{1}{19}$$

$$= \frac{2}{5} \text{ Ans.}$$

$$Q11 \text{ (b)} \quad 24\frac{1}{5} \div 11$$

$$\text{Sol-} = \frac{121}{5} \times \frac{1}{11}$$

$$= \frac{11}{5} = 2\frac{1}{5} \text{ Ans.}$$

$$\text{(c)} \quad 12 \div 1\frac{1}{5}$$

$$\text{Sol-} = 12 \div \frac{6}{5}$$

$$= \frac{2}{1} \times \frac{5}{6} = 10 \text{ Ans.}$$

Q12: Fill in the blanks -

$$\text{(a)} \quad \frac{1}{3} \times \underline{\quad} = \frac{1}{6}$$

$$\text{Sol-} = \frac{1}{6} \div \frac{1}{3}$$

$$= \frac{1}{6} \times \frac{3}{1} = \frac{1}{2} \text{ Ans.}$$

$$\text{(b)} \quad \frac{1}{4} \times \underline{\quad} = 4$$

$$\text{Sol-} = 4 \div \frac{1}{4}$$

$$= 4 \times \frac{4}{1} = 16 \text{ Ans.}$$

$$\text{(c)} \quad 2\frac{1}{3} \times \underline{\quad} = 14$$

$$\text{Sol-} = 14 \div \frac{7}{3}$$

$$= \frac{14}{1} \times \frac{3}{7} = 6 \text{ Ans.}$$

$$\text{(d)} \quad \underline{\quad} \times \frac{2}{15} = 1\frac{1}{2}$$

$$\text{Sol-} = \frac{3}{2} \div \frac{2}{15}$$

$$= \frac{3}{2} \times \frac{15}{2} = \frac{45}{4} = 11\frac{1}{4} \text{ Ans.}$$

$$Q13:- \frac{3}{14} \div 12$$

$$\text{Sol} - = \frac{3}{14} \times \frac{1}{12} = \frac{1}{56} \text{ Ans.}$$

$$Q14:- 32 \div \frac{16}{21}$$

$$\text{Sol} - = 32 \times \frac{21}{16} = 42 \text{ Ans.}$$

$$Q15:- 21 \div 4\frac{1}{5}$$

$$\begin{aligned} \text{Sol} - &= 21 \div \frac{21}{5} \\ &= \frac{21 \times 5}{21} = 5 \text{ Ans.} \end{aligned}$$

$$Q16:- 8\frac{1}{10} \div \frac{9}{40}$$

$$\begin{aligned} \text{Sol} - &= \frac{81}{10} \div \frac{9}{40} \\ &= \frac{81}{10} \times \frac{40}{9} \\ &= 36 \text{ Ans.} \end{aligned}$$

$$Q17:- \frac{23}{50} \div 3\frac{1}{15}$$

$$\begin{aligned} \text{Sol} - &= \frac{23}{50} \div \frac{46}{15} \\ &= \frac{23}{50} \times \frac{15}{46} \\ &= \frac{3}{20} \text{ Ans.} \end{aligned}$$

$$Q18:- 5\frac{1}{3} \div 2\frac{2}{7}$$

$$\text{Sol} - = \frac{16}{3} \div \frac{16}{7}$$

$$= \frac{16}{3} \times \frac{7}{16}$$

$$= \frac{7}{3} = 2\frac{1}{3} \text{ Ans.}$$

$$Q19:- 55 \div 3\frac{3}{4}$$

$$\begin{aligned} \text{Sol} - &= 55 \div \frac{15}{4} \\ &= 55 \times \frac{4}{15} \\ &= \frac{44}{3} = 14\frac{2}{3} \text{ Ans.} \end{aligned}$$

$$Q20:- 15\frac{1}{2} \div 5\frac{1}{6}$$

$$\begin{aligned} \text{Sol} - &= \frac{31}{2} \div \frac{31}{6} \\ &= \frac{31}{2} \times \frac{6}{31} \\ &= 3 \text{ Ans.} \end{aligned}$$

Date ___/___/___

EXE - 8-E

Q1 Sol —

$$\text{Number of guests} = 100$$

$$\text{Male guests} = \frac{13}{20} \text{ of } 100$$

$$= \frac{13}{20} \times 100$$

$$= 65$$

$$\text{Female guests} = 100 - 65 = 35 \text{ Ans.}$$

Q2 Sol — a) Adi had = ₹ 50

$$\text{money spent} = \frac{2}{5} \text{ of } 50$$

$$= \frac{2}{5} \times 50$$

$$= ₹ 20 \text{ Ans.}$$

b)

$$\text{Total money} = ₹ 50$$

$$\text{money spent} = ₹ 20$$

$$\text{money left} = ₹ 50 - ₹ 20$$

$$= ₹ 30 \text{ Ans.}$$

Q3 Sol —

The product of two fractions = 4

$$\text{One fraction} = \frac{3}{8}$$

$$\text{Other fraction} = 4 \div \frac{3}{8}$$

$$= 4 \times \frac{8}{3}$$

$$= \frac{32}{3} = 10\frac{2}{3} \text{ Ans.}$$

Q4 Sol — $\frac{2}{3} \div 2\frac{1}{4} = \frac{2}{3}$

$$= \frac{2}{3} \times \frac{4}{9} = \frac{8}{27}$$

Ans: $\frac{8}{27}$

Q5 Sol —

$$= 3 \div \frac{1}{4}$$

$$= \frac{3 \times 4}{1} = \frac{12}{1} = 12 \text{ Ans.}$$

Q6 Sol —

Distance covered by Bimal in one day = $4\frac{1}{4}$ km.

$$= \frac{17}{4} \text{ km.}$$

Distance covered by him in 12 days

$$= \frac{17 \times 12}{4}$$

$$= 51 \text{ km Ans.}$$

Q7 Sol —

Milk in a container = $5\frac{1}{4}$ l

$$= \frac{21}{4} \text{ l.}$$

Capacity of one bottle = $\frac{3}{4}$ l.

Required bottles for $\frac{21}{4}$ l milk = $\frac{21}{4} \div \frac{3}{4}$

$$= \frac{21}{4} \times \frac{4}{3}$$

$$= 7 \text{ bottles}$$

Ans.

Date / /

Q8 Sol -

Jaya bought salt = 5 kg.
 she got two $\frac{3}{4}$ kg packets of salt

$$\begin{aligned}\text{salt in these two packets} &= \frac{3}{4} + \frac{3}{4} \\ &= \frac{3+3}{4} = \frac{6}{4} \\ &= \frac{3}{2} \text{ kg.}\end{aligned}$$

$$\text{Remaining salt} = 5 - \frac{3}{2}$$

$$= \frac{5}{1} - \frac{3}{2}$$

$$= \frac{5 \times 2 - 3 \times 1}{2} = \frac{10 - 3}{2} = \frac{7}{2}$$

The rest of the salt she bought in $\frac{1}{2}$ kg packets

$$\text{Number of } \frac{1}{2} \text{ kg packets of salt} = \frac{7}{2} \div \frac{1}{2}$$

$$= \frac{7 \times \cancel{2}}{\cancel{2} \times 1}$$

$$= 7$$

= 7 packets Ans.