



1. ਹੇਠ ਲਿਖੀਆਂ ਭਿੰਨਾਂ ਦਾ ਉਲਟਕ੍ਰਮ ਪਤਾ ਕਰੋ।

(i) $\frac{2}{7}$

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

(iii) $\frac{5}{7}$

(iv) $\frac{1}{9}$

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

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

2. ਹੱਲ ਕਰੋ (ਭਿੰਨ ਦੀ ਪੂਰਨ ਸੰਖਿਆ ਨਾਲ ਭਾਗ)।

(i) $\frac{19}{6} \div 10$

(ii) $\frac{4}{9} \div 5$

(iii) $\frac{8}{9} \div 8$

(iv) $3\frac{1}{2} \div 4$

(v) $16\frac{1}{2} \div 5$

(vi) $4\frac{1}{3} \div 3$

3. ਹੱਲ ਕਰੋ (ਪੂਰਨ ਸੰਖਿਆ ਦੀ ਭਿੰਨ ਨਾਲ ਭਾਗ)।

(i) $8 \div \frac{7}{3}$

(ii) $5 \div \frac{7}{5}$

(iii) $4 \div \frac{8}{3}$

(iv) $3 \div 2\frac{3}{5}$

(v) $5 \div 3\frac{4}{7}$

4. ਹੱਲ ਕਰੋ (ਇੱਕ ਭਿੰਨ ਦੀ ਦੂਜੀ ਭਿੰਨ ਨਾਲ ਭਾਗ)।

(i) $\frac{2}{3} \div \frac{10}{9}$

(ii) $\frac{4}{9} \div \frac{2}{3}$

(iii) $2\frac{1}{2} \div \frac{3}{5}$

(iv) $\frac{3}{7} \div 1\frac{1}{5}$

(v) $5\frac{1}{2} \div 2\frac{1}{5}$

(vi) $3\frac{1}{5} \div 1\frac{2}{3}$

5. ਇੱਕ $7\frac{1}{3}$ m ਲੰਬੀ ਰੱਸੀ ਵਿੱਚੋਂ 11 ਛੋਟੀਆਂ ਰੱਸੀਆਂ ਕੱਟੀਆਂ ਜਾਂਦੀਆਂ ਹਨ। ਹਰੇਕ ਛੋਟੀ ਰੱਸੀ ਦੀ ਲੰਬਾਈ ਪਤਾ ਕਰੋ।

6. ਬਹੁਵਿਕਲਪੀ ਪ੍ਰਸ਼ਨ

(i) $\frac{3}{4}$ ਦਾ ਉਲਟਕ੍ਰਮ

(a) $\frac{3}{4}$

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

(c) 1

(d) ਇਹਨਾਂ ਵਿੱਚੋਂ ਕੋਈ ਨਹੀਂ।

(ii) $\frac{5}{7} \div \frac{7}{5} = ?$

(a) 1

(b) $\frac{49}{25}$

(c) $\frac{25}{49}$

(d) -1

(iii) $\frac{5}{7} \div \frac{5}{7} = ?$

(a) 1

(b) $\frac{49}{25}$

(c) $\frac{25}{49}$

(d) -1

7. (i) ਇੱਕ ਉਚਿਤ ਭਿੰਨ ਦਾ ਉਲਟਕ੍ਰਮ ਇੱਕ ਅਣਉਚਿਤ ਭਿੰਨ ਹੁੰਦੀ ਹੈ। (ਸਹੀ/ਗਲਤ)
(ii) ਇੱਕ ਪੂਰਨ ਸੰਖਿਆ ਦਾ ਉਲਟਕ੍ਰਮ ਹਮੇਸ਼ਾ ਇੱਕ ਪੂਰਨ ਸੰਖਿਆ ਹੁੰਦੀ ਹੈ। (ਸਹੀ/ਗਲਤ)

EXERCISE - 2.4

1. Find the reciprocal of each of the following fraction.

(i) $\frac{2}{7}$

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

(iii) $\frac{5}{7}$

(iv) $\frac{1}{9}$

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

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

2. Solve the following (Division of a fraction by a non zero whole number)

(i) $\frac{19}{6} \div 10$

(ii) $\frac{4}{9} \div 5$

(iii) $\frac{8}{9} \div 8$

(iv) $3\frac{1}{2} \div 4$

(v) $16\frac{1}{2} \div 5$

(vi) $4\frac{1}{3} \div 3$

3. Solve the following (Division of a whole number by a fraction)

(i) $8 \div \frac{7}{3}$

(ii) $5 \div \frac{7}{5}$

(iii) $4 \div \frac{8}{3}$

(iv) $3 \div 2\frac{3}{5}$

(v) $5 \div 3\frac{4}{7}$

4. Solve the following (Division of a fraction by another fraction)

(i) $\frac{2}{3} \div \frac{10}{9}$

(ii) $\frac{4}{9} \div \frac{2}{3}$

(iii) $2\frac{1}{2} \div \frac{3}{5}$

(iv) $\frac{3}{7} \div 1\frac{1}{5}$

(v) $5\frac{1}{2} \div 2\frac{1}{5}$

(vi) $3\frac{1}{5} \div 1\frac{2}{3}$

5. 11 small ropes are cut from $7\frac{1}{3}$ m long rope. Find the length of each of the small rope.

6. Multiple choice questions :

(i) Reciprocal of $\frac{3}{4}$ is

(a) $\frac{3}{4}$

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

(c) 1

(d) none of these

(ii) $\frac{5}{7} \div \frac{7}{5} = ?$

(a) 1

(b) $\frac{49}{25}$

(c) $\frac{25}{49}$

(d) -1

(iii) $\frac{5}{7} \div \frac{5}{7} = ?$

(a) 1

(b) $\frac{49}{25}$

(c) $\frac{25}{49}$

(d) -1

7. (i) The reciprocal of a proper fraction is an improper fraction (True/ False)
 (ii) The reciprocal of a whole number is always a whole number (True/ False)

ਭਿੰਨ ਦਾ ਉਲਟ ਰੂਪ Reciprocal of Fraction

$$\frac{4}{7} \text{ ਦਾ ਉਲਟ ਰੂਪ} = \frac{7}{4}$$

ਉਲਟ ਰੂਪ ਦੇ ਨਾਲ ਜੋੜੇ ਤੇ ਨੂੰ ਸਮਝਾਇਆ ਜਾਵੇਗਾ।
ਜਿਸਨੂੰ ਤੀ ਗੁਣਾਤਰ ਉਲਟ ਕਰਦੇ ਹਾਂ।

①. ਹੇਠ ਲਿਖੀਆਂ ਭਿੰਨਾਂ ਦਾ ਉਲਟ ਰੂਪ ਪਤਾ ਕਰੋ:-

Find the reciprocal of following fractions:-

① $\frac{2}{7} \times = \frac{7}{2}$

② $\frac{3}{2} = \frac{2}{3}$

③ $\frac{5}{7} = \frac{7}{5}$

④ $\frac{1}{9} = \frac{9}{1} = 9$

⑤ $\frac{2}{3} = \frac{3}{2}$

⑥ $\frac{7}{8} = \frac{8}{7}$

Solve the following:-

⑦. ਹੱਲ ਕਰੋ:-

① $\frac{19}{6} \div 10 = \frac{19}{6} \div \frac{10}{1}$

$= \frac{19}{6} \times \frac{1}{10}$

$= \frac{19 \times 1}{6 \times 10} = \frac{19}{60}$

ਜਦੋਂ $\div$ ਤੋਂ $\times$ ਭਿੰਨ, ਤੀਤਾ
ਤਾਂ ਭਿੰਨ ਦੇ ਬਾਅਦ ਹਾਰੀ ਸੰਖਿਆ
ਦਾ ਉਲਟ ਰੂਪ ਲੈਵੇਗਾ।

② $\frac{4}{9} \div 5 = \frac{4}{9} \div \frac{5}{1} = \frac{4}{9} \times \frac{1}{5}$

$= \frac{4 \times 1}{9 \times 5} = \frac{4}{45}$

③ $\frac{8}{9} \div 8 = \frac{8}{9} \div \frac{8}{1} = \frac{8}{9} \times \frac{1}{8} = \frac{8 \times 1}{9 \times 8} = \frac{1}{9}$

$$\textcircled{\text{IV}} \quad 3\frac{1}{2} \div 4 = \frac{3 \times 2 + 1}{2} \div 4 = \frac{6+1}{2} \div 4$$

$$= \frac{7}{2} \times \frac{1}{4} = \frac{7}{8}$$

$$\textcircled{\text{V}} \quad 16\frac{1}{2} \div 5 = \frac{32+1}{2} \div \frac{5}{1} = \frac{33}{2} \times \frac{1}{5}$$

$$= \frac{33 \times 1}{2 \times 5} = \frac{33}{10} = 3\frac{3}{10}$$

$$\begin{array}{r} 15 \overline{) 33} \\ \underline{-30} \\ 3 \end{array}$$

$$\textcircled{\text{VI}} \quad 4\frac{1}{3} \div 3 = \frac{12+1}{3} \div \frac{3}{1} = \frac{13}{3} \times \frac{1}{3}$$

$$= \frac{13}{9} = 1\frac{4}{9}$$

$$\begin{array}{r} 9 \overline{) 13} \\ \underline{-9} \\ 4 \end{array}$$

3. *us qd* Solve the following:-

$$\textcircled{\text{I}} \quad 8 \div \frac{7}{3} = \frac{8}{1} \times \frac{3}{7} = \frac{24}{7} = 3\frac{3}{7}$$

$$\begin{array}{r} 7 \overline{) 24} \\ \underline{-21} \\ 3 \end{array}$$

$$\textcircled{\text{II}} \quad 5 \div \frac{7}{5} = \frac{5}{1} \times \frac{5}{7} = \frac{25}{7} = 3\frac{4}{7}$$

$$\begin{array}{r} 7 \overline{) 25} \\ \underline{-21} \\ 4 \end{array}$$

$$\textcircled{\text{III}} \quad 4 \div \frac{8}{3} = \frac{4}{1} \times \frac{3}{8} = \frac{4 \times 3}{1 \times 8} = \frac{3}{2} = 1\frac{1}{2}$$

$$\begin{array}{r} 2 \overline{) 3} \\ \underline{-2} \\ 1 \end{array}$$

$$\textcircled{\text{IV}} \quad 3 \div 2\frac{3}{5} = 3 \div \frac{13}{5} = \frac{3}{1} \times \frac{5}{13} = \frac{15}{13}$$

$$= \frac{15}{13} = 1\frac{2}{13}$$

$$\begin{array}{r} 13 \overline{) 15} \\ \underline{-13} \\ 2 \end{array}$$

$$\textcircled{\text{V}} \quad 5 \div 3\frac{4}{7} = \frac{5}{1} \div \frac{3 \times 7 + 4}{7} = \frac{5}{1} \div \frac{21+4}{7}$$

$$= \frac{5}{1} \div \frac{25}{7} = \frac{5}{1} \times \frac{7}{25} = \frac{7}{5} = 1\frac{2}{5}$$

$$\begin{array}{r} 5 \overline{) 7} \\ \underline{-5} \\ 2 \end{array}$$

ਹੱਲ ਕਰੋ :-

(4) Solve the following :-

$$(I) \frac{2}{3} \div \frac{10}{9} = \frac{2}{3} \times \frac{9}{10} = \frac{2^1 \times 3^2}{3^1 \times 10^1} = \frac{3}{5}$$

$$(II) \frac{4}{9} \div \frac{2}{3} = \frac{4}{9} \times \frac{3}{2} = \frac{2}{3}$$

$$(III) 2\frac{1}{2} \div \frac{3}{5} = \frac{2 \times 2 + 1}{2} \times \frac{5}{3} = \frac{4+1}{2} \times \frac{5}{3}$$

$$= \frac{5}{2} \times \frac{5}{3} = \frac{25}{6} = 4\frac{1}{6}$$

$$\begin{array}{r} 6 \overline{) 25} 4 \\ -24 \\ \hline 1 \end{array}$$

$$(IV) \frac{3}{7} \div 1\frac{1}{5} = \frac{3}{7} \div \frac{1 \times 5 + 1}{5} = \frac{3}{7} \div \frac{5+1}{5}$$

$$= \frac{3}{7} \div \frac{6}{5} = \frac{3}{7} \times \frac{5}{6} = \frac{5}{14}$$

$$(V) 5\frac{1}{2} \div 2\frac{1}{5} = \frac{5 \times 2 + 1}{2} \div \frac{2 \times 5 + 1}{5}$$

$$= \frac{10+1}{2} \div \frac{10+1}{5} = \frac{11}{2} \div \frac{11}{5}$$

$$= \frac{11}{2} \times \frac{5}{11} = \frac{5}{2} = 2\frac{1}{2}$$

$$\begin{array}{r} 25 \overline{) 55} 2 \\ -44 \\ \hline 11 \end{array}$$

$$(VI) 3\frac{1}{5} \div 1\frac{2}{3} = \frac{3 \times 5 + 1}{5} \div \frac{1 \times 3 + 2}{3}$$

$$= \frac{15+1}{5} \div \frac{3+2}{3} = \frac{16}{5} \div \frac{5}{3}$$

$$= \frac{16}{5} \times \frac{3}{5} = \frac{48}{25} = 1\frac{23}{25}$$

$$\begin{array}{r} 25 \overline{) 48} 1 \\ -25 \\ \hline 23 \end{array}$$

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$$\textcircled{5} \text{ Ans.} = 7\frac{1}{3} \div 11 = \frac{7 \times 3 + 1}{3} \div \frac{11}{1}$$

$$= \frac{21+1}{3} \times \frac{1}{11} = \frac{22}{3} \times \frac{1}{11} = \frac{22}{33} = \frac{2}{3}$$

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

$$\frac{22}{3} \times \frac{1}{11} = \frac{2}{3} \text{ Ans}$$

6. Multiple choice question:-

I. Reciprocal of $\frac{3}{4}$ is
 $= \frac{4}{3} = \textcircled{b}$

a $\frac{3}{4}$ b $\frac{4}{3}$ c 1 d none of these

II. $\frac{5}{7} \div \frac{7}{5} = ?$ $= \frac{5}{7} \times \frac{5}{7} = \frac{25}{49} = \textcircled{c}$

a 1 b $\frac{49}{25}$ c $\frac{25}{49}$ d -1

III. $\frac{5}{7} \div \frac{5}{7} = ?$ $= \frac{5}{7} \times \frac{7}{5} = \frac{5 \times 7}{7 \times 5} = \frac{1}{1} = 1 = \textcircled{a}$

a 1 b $\frac{49}{25}$ c $\frac{25}{49}$ d -1

7. I. The reciprocal of a proper fraction is an improper fraction. (True/False)
 જિવે ઉચિત કિં રા હિચતુમ જિવે અચિત્તિ કિં ડેરી કે। (જી/ઝડ)

= મગી True

II. The reciprocal of a whole number is always a whole number. (True/False)
 જિવે પૂઠ મધિમા રા હિચતુમ અમેજા જિવે પૂઠ મધિમા ડેરી કે। (જી/ઝડ)

= ઝડ False