



CLASS NOTES-ANSWERS

EXERCISE 2.4

1. Find:

i. $12 \div \frac{3}{4}$

ii. $14 \div \frac{5}{6}$

iii. $8 \div \frac{7}{3}$

iv. $4 \div \frac{8}{3}$

v. $3 \div 2 \frac{1}{3}$

vi. $5 \div 3 \frac{4}{7}$

Answer:

i. $12 \div \frac{3}{4} = 12 \times \frac{4}{3} = 4 \times 4 = 16$

ii. $14 \div \frac{5}{6} = 14 \times \frac{6}{5} = \frac{84}{5} = 16 \frac{4}{5}$

iii. $8 \div \frac{7}{3} = 8 \times \frac{3}{7} = \frac{24}{7} = 3 \frac{3}{7}$

iv. $4 \div \frac{8}{3} = 4 \times \frac{3}{8} = \frac{3}{2} = 1 \frac{1}{2}$

v. $3 \div 2 \frac{1}{3} = 3 \div \frac{7}{3} = 3 \times \frac{3}{7} = \frac{9}{7} = 1 \frac{2}{7}$

vi. $5 \div 3 \frac{4}{7} = 5 \div \frac{25}{7} = 5 \times \frac{7}{25} = \frac{7}{5} = 1 \frac{2}{5}$

2. Find the reciprocal of each of the following fractions. Classify the reciprocals as proper fractions, improper fractions and whole numbers.

i. $\frac{3}{7}$

ii. $\frac{5}{8}$

iii. $\frac{9}{7}$

iv. $\frac{6}{5}$

v. $\frac{12}{7}$

vi. $\frac{1}{8}$

vii. $\frac{1}{11}$

Answer:

i. $\frac{3}{7} = \frac{7}{3}$ (Improper fraction)

ii. $\frac{5}{8} = \frac{8}{5}$ (Improper fraction)

iii. $\frac{9}{7} = \frac{7}{9}$ (Proper fraction)

iv. $\frac{6}{5} = \frac{5}{6}$ (Proper fraction)



$$\text{v. } \frac{12}{7} = \frac{7}{12} \quad (\text{Improper fraction})$$

$$\text{vi. } \frac{1}{8} = 8 \quad (\text{Whole number})$$

$$\text{vii. } \frac{1}{11} = 11 \quad (\text{Whole number})$$

3. Find:

$$\text{i. } \frac{7}{3} \div 2$$

$$\text{ii. } \frac{4}{9} \div 5$$

$$\text{iii. } \frac{6}{13} \div 7$$

$$\text{iv. } 4\frac{1}{3} \div 3$$

$$\text{v. } 3\frac{1}{2} \div 4$$

$$\text{vi. } 4\frac{3}{7} \div 7$$

Answer:

$$\text{i. } \frac{7}{3} \div 2 = \frac{7}{3} \times \frac{1}{2} = \frac{7}{6} = 1\frac{1}{6}$$

$$\text{ii. } \frac{4}{9} \div 5 = \frac{4}{9} \times \frac{1}{5} = \frac{4}{45}$$

$$\text{iii. } \frac{6}{13} \div 7 = \frac{6}{13} \times \frac{1}{7} = \frac{6}{91}$$

$$\text{iv. } 4\frac{1}{3} \div 3 = \frac{13}{3} \times \frac{1}{3} = \frac{13}{9} = 1\frac{4}{9}$$

$$\text{v. } 3\frac{1}{2} \div 4 = \frac{7}{2} \times \frac{1}{4} = \frac{7}{8}$$

$$\text{vi. } 4\frac{3}{7} \div 7 = \frac{31}{7} \times \frac{1}{7} = \frac{31}{49}$$

4. Find:

$$\text{i. } \frac{2}{5} \div \frac{1}{2}$$

$$\text{ii. } \frac{4}{9} \div \frac{2}{3}$$

$$\text{iii. } \frac{3}{7} \div \frac{8}{7}$$

$$\text{iv. } 2\frac{1}{3} \div \frac{3}{5}$$

$$\text{v. } 3\frac{1}{2} \div \frac{8}{3}$$

$$\text{vi. } \frac{2}{5} \div 1\frac{1}{2}$$

$$\text{vii. } 3\frac{1}{5} \div 1\frac{2}{3}$$

$$\text{viii. } 2\frac{1}{5} \div 1\frac{1}{5}$$

Answer:

$$\text{i. } \frac{2}{5} \div \frac{1}{2} = \frac{2}{5} \times 2 = \frac{4}{5}$$

$$\text{ii. } \frac{4}{9} \div \frac{2}{3} = \frac{4}{9} \times \frac{3}{2} = \frac{2}{3}$$

$$\text{iii. } \frac{3}{7} \div \frac{8}{7} = \frac{3}{7} \times \frac{7}{8} = \frac{3}{8}$$



$$\text{iv. } 2\frac{1}{3} \div \frac{3}{5} = \frac{7}{3} \times \frac{5}{3} = \frac{35}{9} = 3\frac{8}{9}$$

$$\text{v. } 3\frac{1}{2} \div \frac{8}{3} = \frac{7}{2} \times \frac{3}{8} = \frac{21}{16} = 1\frac{5}{16}$$

$$\text{vi. } \frac{2}{5} \div 1\frac{1}{2} = \frac{2}{5} \times \frac{2}{3} = \frac{4}{15}$$

$$\text{vii. } 3\frac{1}{5} \div 1\frac{2}{3} = \frac{16}{5} \times \frac{3}{5} = \frac{48}{25} = 1\frac{23}{25}$$

$$\text{viii. } 2\frac{1}{5} \div 1\frac{1}{5} = \frac{11}{5} \times \frac{5}{6} = \frac{11}{6} = 1\frac{5}{6}$$

