

1 Find the missing values in the following equivalent fractions.

(i) $\frac{3}{4} = \frac{\square}{12}$

(ii) $\frac{2}{7} = \frac{10}{\square}$

(iii) $\frac{5}{8} = \frac{\square}{32}$

(iv) $\frac{6}{11} = \frac{42}{\square}$

(v) $\frac{5}{\square} = \frac{10}{12}$

2 Simplify the following fractions.

(i) $\frac{12}{20} =$

(ii) $\frac{24}{30} =$

(iii) $\frac{14}{21} =$

(iv) $\frac{40}{64} =$

(v) $\frac{18}{42} =$

3 Convert the following improper fractions to mixed numbers.

(i) $\frac{5}{3} =$

(ii) $\frac{15}{4} =$

(iii) $\frac{20}{7} =$

(iv) $\frac{35}{8} =$

(v) $\frac{87}{7} =$

4 Convert the following mixed numbers back to improper fractions.

(i) $3\frac{2}{3} =$

(ii) $2\frac{3}{7} =$

(iii) $4\frac{3}{4} =$

(iv) $5\frac{1}{6} =$

(v) $12\frac{2}{7} =$

5 Work out the following fractions of quantities.

(i) $\frac{2}{3}$ of £24

(ii) $\frac{3}{5}$ of £450

(iii) $\frac{7}{8}$ of 160 kg

(iv) $\frac{7}{12}$ of 3600 km

6 Addition.

(i) $\frac{6}{16} + \frac{4}{16}$

(ii) $\frac{3}{4} + \frac{1}{5}$

(iii) $2\frac{1}{2} + 1\frac{2}{5}$

(iii) $3\frac{5}{6} + 2\frac{7}{12}$

7 Subtraction.

(i) $\frac{11}{18} - \frac{4}{18}$

(ii) $\frac{5}{8} - \frac{5}{16}$

(iii) $8\frac{2}{5} - 3\frac{1}{4}$

(iv) $4\frac{1}{3} - 2\frac{3}{8}$