

FRACTIONS: FINDING, MULTIPLYING AND DIVIDING EXERCISE

You should not use a calculator for this exercise

1) Find $\frac{3}{4}$ of 144 kg

2) Find $\frac{1}{5}$ of £72.00

3) Find $\frac{2}{7}$ of 357 m

4) Find $\frac{5}{8}$ of 2000 kg

5) Find $\frac{8}{9}$ of £171

6) $\frac{4}{5} \times \frac{3}{8}$

7) $\frac{6}{7} \times \frac{7}{8}$

8) $\frac{9}{10} \times \frac{5}{6}$

9) $\frac{3}{4} \times \frac{5}{7}$

10) $\frac{2}{3} \times \frac{6}{7}$

11) $\frac{4}{5} \div \frac{2}{3}$

12) $\frac{7}{8} \div \frac{5}{8}$

13) $\frac{2}{9} \div \frac{4}{5}$

14) $\frac{9}{10} \div \frac{4}{5}$

15) $\frac{5}{12} \div \frac{3}{4}$

FRACTIONS: FINDING, MULTIPLYING AND DIVIDING EXERCISE

1) Find $\frac{3}{4}$ of 144 kg

$$4 \overline{) 144}$$

$$\begin{array}{r} 36 \\ 13 \times \\ \hline 108 \end{array}$$

Ans = 108 kg

2) Find $\frac{1}{5}$ of £72.00

$$5 \overline{) 72.00}$$

Ans = £14.40

3) Find $\frac{2}{7}$ of 357m

$$7 \overline{) 357}$$

$$\begin{array}{r} 51 \\ 2 \times \\ \hline 102 \end{array}$$

Ans = 102 m

4) Find $\frac{5}{8}$ of 2000 kg

$$8 \overline{) 2000}$$

$$\begin{array}{r} 250 \\ 25 \times \\ \hline 1250 \end{array}$$

Ans = 1250 kg

5) Find $\frac{8}{9}$ of £171

$$9 \overline{) 171}$$

$$\begin{array}{r} 19 \\ 78 \times \\ \hline 152 \end{array}$$

Ans = £152

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$$6) \quad \frac{4}{5} \times \frac{3}{8} \quad \frac{\overset{1}{\cancel{4}}}{5} \times \frac{3}{\underset{2}{\cancel{8}}} = \frac{1 \times 3}{5 \times 2} = \frac{3}{10}$$

$$7) \quad \frac{6}{7} \times \frac{7}{8} \quad \frac{\overset{3}{\cancel{6}}}{7} \times \frac{7}{\underset{4}{\cancel{8}}} = \frac{3 \times 1}{1 \times 4} = \frac{3}{4}$$

$$8) \quad \frac{9}{10} \times \frac{5}{6} \quad \frac{\overset{3}{\cancel{9}}}{10} \times \frac{\overset{1}{\cancel{5}}}{\underset{2}{\cancel{6}}} = \frac{3 \times 1}{2 \times 2} = \frac{3}{4}$$

$$9) \quad \frac{3}{4} \times \frac{5}{7} \quad \frac{3}{4} \times \frac{5}{7} = \frac{3 \times 5}{4 \times 7} = \frac{15}{28}$$

$$10) \quad \frac{2}{3} \times \frac{6}{7} \quad \frac{\overset{2}{\cancel{2}}}{3} \times \frac{\overset{2}{\cancel{6}}}{7} = \frac{2 \times 2}{1 \times 7} = \frac{4}{7}$$

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$$11) \quad \frac{4}{5} \div \frac{2}{3} = \frac{\cancel{4}^2}{5} \times \frac{3}{\cancel{2}_1} = \frac{2 \times 3}{5 \times 1} = \frac{6}{5} = 1\frac{1}{5}$$

$$12) \quad \frac{7}{8} \div \frac{5}{8} = \frac{7}{\cancel{8}_1} \times \frac{\cancel{8}^1}{5} = \frac{7 \times 1}{1 \times 5} = \frac{7}{5} = 1\frac{2}{5}$$

$$13) \quad \frac{2}{9} \div \frac{4}{5} = \frac{\cancel{2}^1}{9} \times \frac{5}{\cancel{4}_2} = \frac{1 \times 5}{9 \times 2} = \frac{5}{18}$$

$$14) \quad \frac{9}{10} \div \frac{4}{5} = \frac{\cancel{9}^3}{\cancel{10}_2} \times \frac{\cancel{5}^1}{4} = \frac{3 \times 1}{2 \times 4} = \frac{3}{8} = 1\frac{1}{8}$$

$$15) \quad \frac{5}{12} \div \frac{3}{4} = \frac{5}{\cancel{12}_3} \times \frac{\cancel{4}^1}{3} = \frac{5 \times 1}{3 \times 3} = \frac{5}{9}$$