

Fractions

Look and learn

$$\frac{3}{5} \rightarrow \text{Numerator}$$

$$\frac{3}{5} \rightarrow \text{Denominator}$$

Simplifying fractions:

$$\frac{4}{10} \div 2 \rightarrow \frac{2}{5}$$

$$\frac{3}{6} \div 3 \rightarrow \frac{1}{2}$$

Ordering fractions
To order fractions change them so they all have the same denominator.



$$\frac{1}{2} = \frac{6}{12} \quad \frac{2}{3} = \frac{8}{12} \quad \frac{3}{4} = \frac{9}{12}$$

Practice

Complete these equivalent fractions.

$$\frac{1}{4} = \frac{\square}{8}$$

$$\frac{2}{5} = \frac{6}{\square}$$

$$\frac{1}{2} = \frac{8}{\square}$$

$$\frac{2}{3} = \frac{\square}{9}$$

$$\frac{\square}{5} = \frac{16}{20}$$

$$\frac{3}{\square} = \frac{30}{100}$$

$$\frac{9}{10} = \frac{45}{\square}$$

$$\frac{7}{8} = \frac{\square}{80}$$

Simplify these fractions.

$$\frac{6}{12} \div \square \rightarrow \square$$

$$\frac{5}{15} \div \square \rightarrow \square$$

$$\frac{9}{15} \div \square \rightarrow \square$$

$$\frac{12}{20} \div \square \rightarrow \square$$

$$\frac{8}{12} \div \square \rightarrow \square$$

$$\frac{15}{20} \div \square \rightarrow \square$$

$$\frac{\square}{\square} \div \square \rightarrow \square$$

$$\frac{\square}{\square} \div \square \rightarrow \square$$

$$\frac{6}{24} \div \square \rightarrow \square$$

$$\frac{8}{32} \div \square \rightarrow \square$$

Challenge

Write these fractions in order starting with the **smallest**.

$$\frac{1}{2} \quad \frac{2}{5} \quad \frac{7}{10} \quad \frac{3}{4}$$

$$\frac{3}{8} \quad \frac{1}{4} \quad \frac{1}{2} \quad \frac{5}{6}$$

smallest

largest

smallest

largest

Fractions and quantities

Look and learn

To find $\frac{4}{5}$ of £150:

- Find $\frac{1}{5}$ of 150 \rightarrow 30
- Then $\frac{4}{5}$ is $30 \times 4 \rightarrow 120$

$\frac{4}{5}$ of £150 is £120

Practice

What is $\frac{3}{5}$ of:

40 \rightarrow 15 \rightarrow
25 \rightarrow 60 \rightarrow
5 \rightarrow 100 \rightarrow

What is $\frac{7}{10}$ of:

40 \rightarrow 15 \rightarrow
25 \rightarrow 60 \rightarrow
5 \rightarrow 100 \rightarrow

Write these amounts.

$\frac{2}{3}$ of 63cm = $\frac{1}{5}$ of 750ml =
 $\frac{3}{4}$ of 180km = $\frac{7}{8}$ of 400l =
 $\frac{4}{5}$ of 305m = $\frac{3}{100}$ of 2000m =
 $\frac{4}{9}$ of 504g = $\frac{2}{5}$ of 1050kg =
 $\frac{3}{8}$ of 128cm = $\frac{9}{10}$ of 450g =

Challenge

• What fraction of £8 is 25p?

• What fraction of one year is one week?

• What fraction of one hour is forty-five minutes?

• What fraction of 1 metre is 70cm?

