

# PERCENTAGES %

***NO CALCULATOR***

You should know these common percentages as fractions:

$$25\% = \frac{1}{4}$$

$$1\% = \frac{1}{100}$$

$$33\frac{1}{3}\% = \frac{1}{3}$$

$$50\% = \frac{1}{2}$$

$$10\% = \frac{1}{10}$$

$$66\frac{2}{3}\% = \frac{2}{3}$$

$$75\% = \frac{3}{4}$$

## WORKED EXAMPLES

Find 25% of £16

$$\begin{aligned} 25\% &= \frac{1}{4} \\ 25\% \text{ of } \pounds 16 &= \frac{1}{4} \text{ of } \pounds 16 \\ &= \pounds 16 \div 4 \\ &= \pounds 4 \end{aligned}$$

Find  $33\frac{1}{3}\%$  of 24cm

$$\begin{aligned} 33\frac{1}{3}\% &= \frac{1}{3} \\ 33\frac{1}{3}\% \text{ of } 24\text{cm} &= \frac{1}{3} \text{ of } 24\text{cm} \\ &= 24\text{cm} \div 3 \\ &= 8\text{cm} \end{aligned}$$

## Finding a PERCENTAGE

### WORKED EXAMPLE

1. Find 15% of £120

$$\begin{aligned} 10\% \text{ of } \pounds 120 &= \pounds 12 \\ 5\% \text{ of } \pounds 120 &= \pounds 6 \end{aligned}$$

$$15\% \text{ of } \pounds 120 = \pounds 18$$

**'Per cent' means out of 100**

$$2\% = \frac{2}{100} \quad 36\% = \frac{36}{100} \quad 81\% = \frac{81}{100}$$