

## What Do We Mean by Percent?


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$100 \%$ of something is $\frac{100}{100}$

which is equivalent to a whole.


# Calculating Percentages 

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(B) (Q) $\because$

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Divide by 10 and halve your answer


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## Calculating Percentages

Knowing how to calculate $10 \%$ and $1 \%$ are important to help how to calculate other percentages, for instance to calculate $5 \%$, you could:

- Find $1 \%$, then multiply this by 5
- Find $10 \%$ and halve this



## Calculating Percentages

To find a percentage of something, what calculation do you need to do?

$$
\begin{gathered}
30 \% \text { of } £ 80=? \\
10 \% \text { of } £ 80=8 \\
30 \% \text { of } £ 80=8 \times 3=24
\end{gathered}
$$

First divide the amount by 10 to find $10 \%$
Then multiply your answer by how many lots of 10 you need. In this case we need 3 lots of 10.

## You try...

To find a percentage of something, what calculation do you need to do?

$$
\begin{aligned}
& 60 \% \text { of } £ 70= \\
& 10 \% \text { of } £ 70=
\end{aligned}
$$



## You try...

To find a percentage of something, what calculation do you need to do?
First divide by 10 to find $10 \%$


## You try...

To find a percentage of something, what calculation do you need to do?
$40 \%$ of $£ 120=$
$10 \%$ of $£ 120=$

## Calculating Percentages

To find a percentage of something, what calculation do you need to do?

$$
\begin{gathered}
40 \% \text { of } £ 120= \\
10 \% \text { of } £ 120=12 \\
12 \times 4=48
\end{gathered}
$$

## Calculating Percentages

Find the percentages of the following amounts:


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# Calculating Percentages 

To find a percentage of something, what calculation do you need to do?
What if we need to find a percentage which needs $5 \%$ ?

## $35 \%$ of $£ 60=$ $10 \%$ of $£ 60=6$ $5 \%$ of $£ 60=3$ $30 \%$ of $£ 60=18$

First divide the amount by 10 to find 10\%
Then divide your 10\% amount (6) by 2 to find $5 \%$.

$$
6 \div 2=3
$$

Then multiply your 10\% amount (6) by the number of lots of 10 you need. In this case we need 3 lots of ten,

$$
6 \times 3=18
$$

Finally, add your amount for 30\% (18) to the amount for $5 \%$ (3).

$$
18+3=21
$$

$$
\text { So } 35 \% \text { of } £ 60=£ 21
$$

## Look at another example of this...

To find a percentage of something, what calculation do you need to do? First divide by 10 to find $10 \%$

$$
\begin{gathered}
65 \% \text { of } £ 120=78 \\
10 \% \text { of } £ 120=12 \\
5 \% \text { of } £ 120=12 \div 2=6 \\
60 \% \text { of } £ 120=12 \times 6=72 \\
35 \%=6+72=
\end{gathered}
$$

## You try...

To find a percentage of something, what calculation do you need to do?

$$
\begin{gathered}
35 \% \text { of } £ 40= \\
10 \% \text { of } £ 40=-- \\
5 \% \text { of } £ 40=--\div 2=-- \\
30 \% \text { of } £ 40=--\times=-- \\
35 \%=+{ }_{-}^{+}=
\end{gathered}
$$

## You try...

To find a percentage of something, what calculation do you need to do?

$$
\begin{gathered}
35 \% \text { of } £ 40= \\
10 \% \text { of } £ 40=4 \\
5 \% \text { of } £ 40=4 \div 2=2 \\
30 \% \text { of } £ 40=4 \times 3=12 \\
35 \%=12+2=14
\end{gathered}
$$

## You try...

To find a percentage of something, what calculation do you need to do?

$$
\begin{gathered}
85 \% \text { of } £ 200= \\
10 \% \text { of } £ 200=- \\
5 \% \text { of } £ 200=--- \\
80 \% \text { of } £ 200=--- \\
35 \%=-{ }_{-}^{+}=-
\end{gathered}
$$

## You try...

To find a percentage of something, what calculation do you need to do?

$$
\begin{gathered}
85 \% \text { of } £ 200=£ 170 \\
10 \% \text { of } £ 200=20 \\
5 \% \text { of } £ 200=20 \div 2=10 \\
80 \% \text { of } £ 200=20 \times 8=160 \\
85 \%=160+10=170
\end{gathered}
$$

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Find the percentages of the following amounts:


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