



Percentage of an Amount (1)

Aim

- Solve problems involving the calculation of percentages and the use of percentages for comparison.



1 Match the equivalent fractions and percentages.

50%	$\frac{1}{100}$	25%	$\frac{1}{2}$	1%	$\frac{1}{10}$	10%	$\frac{1}{4}$
$\frac{1}{2}$		$\frac{1}{4}$		$\frac{1}{100}$		$\frac{1}{10}$	

2 What is the quickest way to find 50% of a number?

To find 50%, divide by two.

3 How can you use equivalent fractions to find 1%, 10% or 25% of a number?

Divide by the denominator of the equivalent fraction.

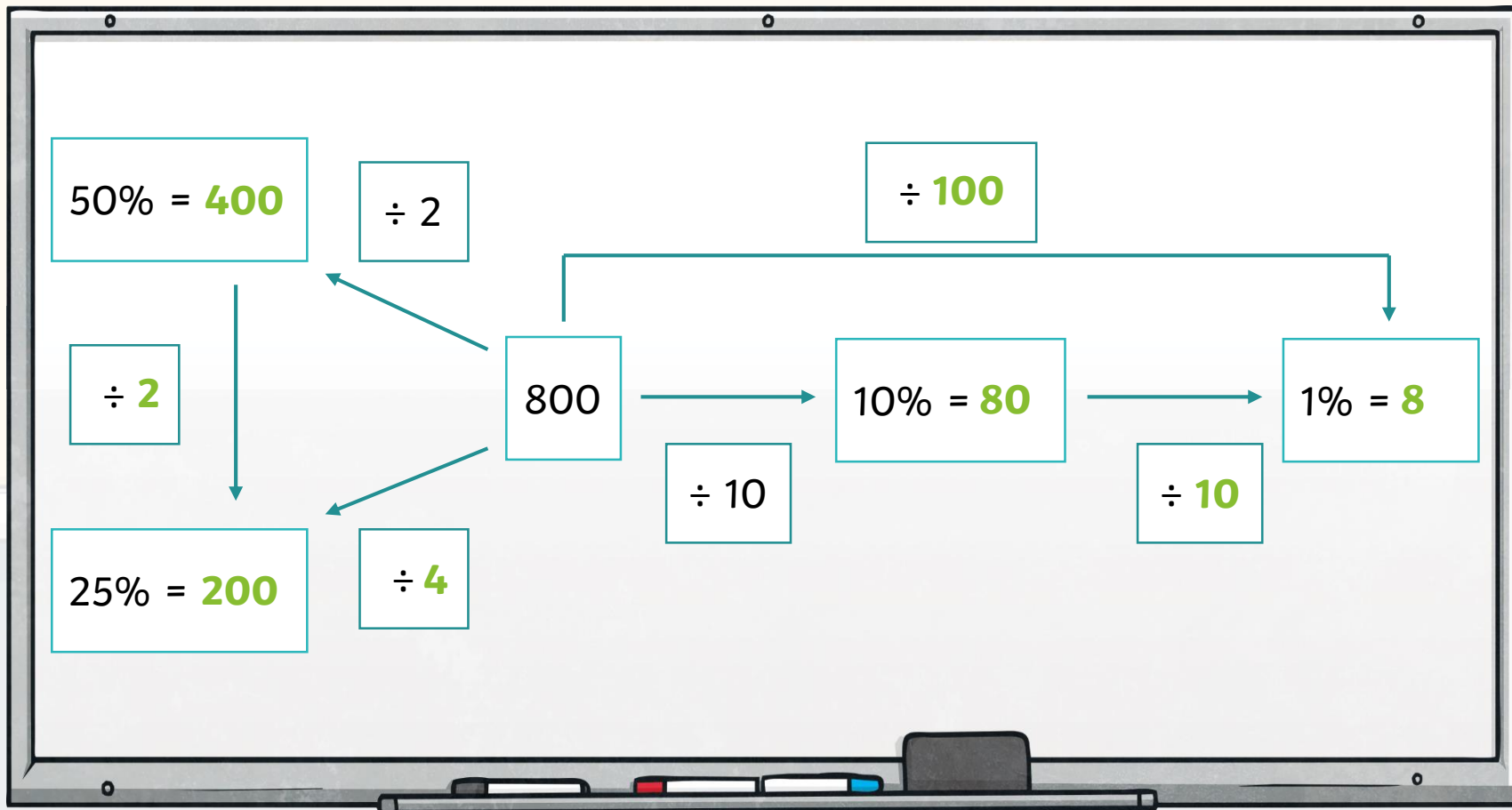
To find 1%, divide by 100.

To find 10%, divide by 10.

To find 25%, divide by 4.



4 Complete this diagram to show the percentages of 800.





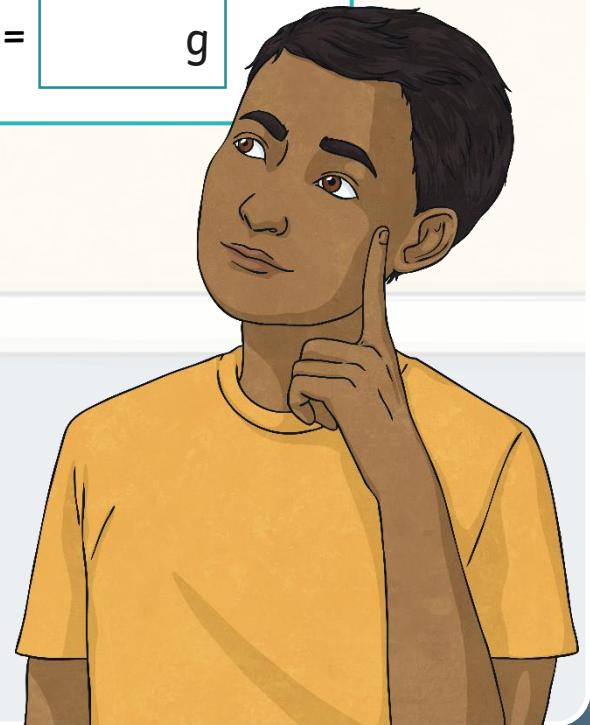
5 Calculate the percentages of these different amounts.

$$50\% \text{ of } \pounds 750 = \pounds \boxed{}$$

$$25\% \text{ of } 6.4\text{km} = \boxed{} \text{ m}$$

$$10\% \text{ of } 3\text{m} = \boxed{} \text{ cm}$$

$$1\% \text{ of } 4\text{kg} = \boxed{} \text{ g}$$





True or False?

To find 25% of an amount I can divide the amount by 2 and then divide it by 2 again.

True.

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

To find $\frac{1}{4}$ of an amount we divide by 4. We can also find $\frac{1}{4}$ by dividing by 2 and dividing by 2 again.

10% of 240 = 1% of 2400

True.

$$240 \div 10 = 24 \text{ is the same as } 2400 \div 100 = 24$$

25% of 4680 < 50% of 2280

False

$$25\% \text{ of } 4680 = 1170 \text{ and } 50\% \text{ of } 2280 = 1140$$

$$1170 > 1140$$

$$25\% \text{ of } 4680 > 50\% \text{ of } 2280$$



Percentage of an Amount (1) Deepest



Choose a percentage from box A and an amount from box B then complete the percentage statement to make each of the numbers from C.

A	B
10%, 1%, 50%, 25%	3000, 300, 30, 70, 700, 7000, 450, 4500, 680, 6800

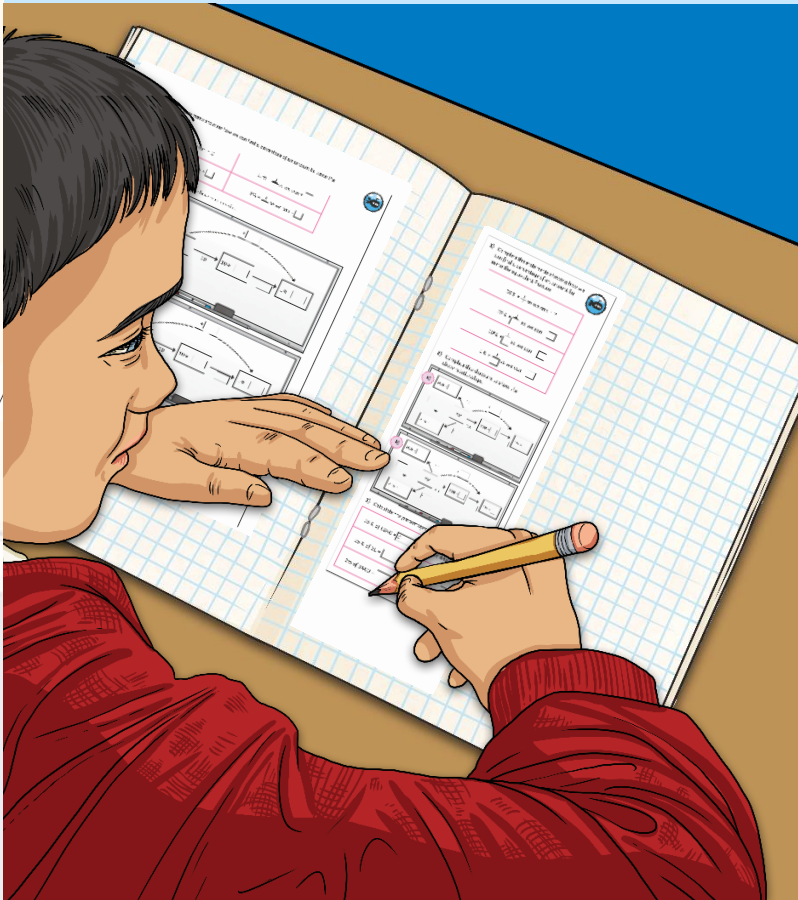
Percentage from A		Number from B		Percentage from A		Number from B		Number from C
%	of		+	%	of		=	

C	
10 (1% of 300 + 1% of 700)	500 (50% of 300 + 50% of 700)
1200 (25% of 4500 + 25% of 300)	3700 (50% of 6800 + 10% of 3000)
A number between 500 - 800 (25% of 680 + 50% of 700 = 520)	

Example answers are shown.

Percentage of an Amount (1)

Dive in by completing your own activity!



1) Choose a number to make 100.

To find 2% of 800 = $\frac{2}{100} \times 800 = 16$

To find 15% of 200 = $\frac{15}{100} \times 200 = 30$

2% of 800 = 16

15% of 200 = 30

2) True or False? Tick the correct box.

Joel is trying to find 10% of 500. He says, '10% of 500 is 50.' Is Joel's answer correct? Tick the correct box.

Using the number line, find 10% of 500.

Percentage from

1) Complete the statements showing how we can find a percentage of an amount by using the equivalent fraction.

$50\% = \frac{1}{2}$ so we can $\div 2$	$10\% = \frac{1}{10}$ so we can \div <input type="text"/>
$25\% = \frac{1}{4}$ so we can \div <input type="text"/>	$1\% = \frac{1}{100}$ so we can \div <input type="text"/>

2) Complete this diagram to show the above relationships.

a)

b)

3) Calculate the percentages of these different amounts.

75% of 8840 = <input type="text"/>	10% of 6kg = <input type="text"/> g	1% of 3400 = <input type="text"/>
25% of 5L = <input type="text"/> ml	1% of 7km = <input type="text"/> m	50% of 16.1 = <input type="text"/>

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Need Planning to Complement this Resource?

National Curriculum Aim

Solve problems involving the calculation of percentages and the use of percentages for comparison.

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This collage features three video thumbnails and three worksheet thumbnails. The video thumbnails are titled 'Calculating Percentages', 'Finding Percentages', and 'Calculating Percentages'. The worksheet thumbnails are titled 'Ratio and Proportion: Finding Percentages', 'Percentages - Int', and 'Finding Percentages'. A Twinkl Planit logo is visible in the bottom right corner of the collage.

This collage features three video thumbnails and three worksheet thumbnails. The video thumbnails are titled 'Percentage Problems', 'Problems with Percentages', and 'Which one Fits?'. The worksheet thumbnails are titled 'Ratio and Proportion: Problems with Percentages', 'Solving Perc', and 'Percentage Reductions'. A Twinkl Planit logo is visible in the bottom right corner of the collage.

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