

Percentages of Amounts

Finding percentages is mostly straightforward — the whole amount is 100%. Divide by 10 to find 10% (and then by 2 if you need 5%). You can then just multiply these values to find the percentage you need.

Examples

Nina has 800 g of sugar. She uses 70%.
How much sugar does Nina use?

10% of 800 = $800 \div 10 = 80$ g
70% of 800 = $80 \times 7 = 560$ g
So Nina used **560 g** sugar.

Archie eats 15% of a circular key lime pie.
How many degrees of the pie has he eaten?

10% of 360 = $360 \div 10 = 36^\circ$
5% of 360 = $36 \div 2 = 18^\circ$
So 15% of 360 = $36 + 18 = 54^\circ$
Archie ate **54 degrees** of the pie.



Remember — there are 360° in a circle.

Set A

- 1 Match the percentages below to their values.

10% of 200	70
20% of 150	180
50% of 120	20
30% of 500	60
70% of 100	150
90% of 200	30

Karina is saving for a dress that costs £30. How much money will she have after she has saved:

- 2 20%?
3 90%?

Tim has saved £70. How much will he have if he spends:

- 4 40%?
5 70%?

Lionel drinks 50% of a 600 ml bottle of cola. Rick drinks 65% of a 800 ml bottle.

- 6 Who drank the most?
7 How much did they drink in total?

Sarah drank everything that was left over by Lionel and Rick.

- 8 In ml, how much was left over for Sarah to drink?

Set B

Work out each of the percentages below.

- 1 10% of 400
2 20% of 50
3 40% of 200
4 60% of 80
5 55% of 300
6 75% of 800

Which is smaller:

- 7 25% of 200 or 20% of 150?
8 60% of 600 or 50% of 700?
9 1% of 300 or 4% of 100?

Which is larger:

- 10 90% of 700 or 60% of 1000?
11 35% of 400 or 25% of 700?

Three friends share a 2 kg wheel of cheese:

- Iain takes 50%
- Ben takes 20%
- Kara takes the rest.

- 12 In g, how much cheese does each person get?
13 How many degrees of the cheese wheel does Ben get?

Set C

Niamh has 550 stickers.
Steve has 30% as many as Niamh.

- 1 How many stickers do they have in total?

Niamh loses 40% of her stickers.

- 2 How many stickers does she have now?
3 What percentage of Niamh's total stickers does Steve have now?

- 4 200 people vote for their favourite ice-cream flavour. The results are shown below:



How many people said cherry or mint was their favourite?

Normally, jumpers cost £22 and skirts cost £12. In a sale, jumpers are 25% off and skirts are 30% off.

How much would it cost to buy:

- 5 a jumper in the sale?
6 a skirt in the sale?

Tilly buys 10 skirts before the sale.

- 7 How much money would she have saved in the sale?

I can find a percentage of an amount.

