

Percentage problems

Solve problems involving percentages



1 Work out these percentages.

- | | | |
|-----------------|-----------------|-----------------|
| a 50% of 300 | b 50% of £550 | c 50% of 800 km |
| d 50% of 96 m | e 50% of 640 | f 50% of £1660 |
| g 25% of 2600 | h 25% of £4000 | i 25% of 88 cm |
| j 25% of 640 | k 25% of 1000 m | l 25% of 96 ml |
| m 10% of £760 | n 10% of 2580 | o 10% of 530 kg |
| p 10% of 180 km | q 10% of 3000 | r 10% of 330 ml |

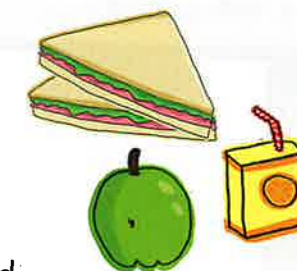
- 50% of the cake was eaten. What per cent was left?
- 80% of the children in Year 5 walk to school. What per cent do not walk?
- If Sean got 90% of the questions right in a spelling test, what per cent did he get wrong?
- In a maths test Samara scored 60 out of 100. What per cent did she get right?



1 Work out these percentages.

- | | | |
|---------------|---------------|---------------|
| a 50% of 3200 | b 25% of 4020 | c 10% of 3870 |
| d 40% of 2500 | e 75% of 6080 | f 30% of 5400 |
| g 20% of 7660 | h 80% of 5000 | i 25% of 5100 |
| j 75% of 4140 | k 40% of 2760 | l 20% of 6310 |
| m 60% of 7770 | n 25% of 4020 | o 80% of 5830 |

- 24% of children have packed lunch. What per cent do not?
- 83% of the children in Year 5 say maths is their favourite subject. How many do not like maths the most?
- A survey of favourite colours was done. 25% of people said red, 14% said blue, and 35% said pink. What percentage of people asked chose other colours?
- In a maths test worth a total of 80 marks Mina scored 70%, and in a maths test worth a total of 90 marks Oliver scored 60%. Who answered the most questions correctly?
- Harry has saved £30. He spends 20% of it on his cinema ticket and 10% of it on popcorn. How much does he have left?



Challenge
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- One large pizza costs £12.50. If Sophie buys four of them she gets 10% off the total bill. How much would she pay?
- The tallest person in the class is 160 cm tall and the shortest person is 10% shorter. How tall is the shortest person?
- Jenna saves £1.75 a week for 16 weeks. She goes shopping and spends 75% of her money on some new shoes. How much does she spend?
- Computers are usually priced at £215 each. The school has negotiated a deal and can get a 25% discount if they buy 16. What would the price be for 16 computers?
- My dog has been eating a lot. Last time I took him to the vets he weighed 8 kg. Now he is 20% heavier. What is his new weight? It might help to convert the kg to grams.
- In Brighton the temperature is 25 °C, but in Edinburgh it is only 80% as hot. What is the temperature in Edinburgh?
- Joe has a piece of string 220 cm long. He cut off 40% of the string and then cut it into 4 cm lengths. How many 4 cm pieces does he have?

