

# Find a percentage of a given amount using a calculator

1 Complete the calculations.

Show your working.

a) 36% of £240 =

b) 79% of £56 =

2 Tick the calculation that cannot be used to find 83% of £542

$542 \div 100 \times 83$

$83 \times 542 \div 100$

$542 \div 83 \times 100$

$0.83 \times 542$

Explain your answer.

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3 Write  $<$ ,  $>$  or  $=$  to make the statement correct.

84% of 50  50% of 84

Explain your answer.

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4 In 2011, the population of Leeds was 474,632. The population of Leeds has now increased. A web page states, "The population of Leeds has increased by 17%." Is it possible for the population to have increased by **exactly** 17%? Explain your answer.

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5 Calculate 37% of 2 m. Give your answer in centimetres.

cm

6 Dani is buying a bike. She finds the same bike in two different shops.

**Bike World**  
**£106**  
Price does not include VAT

**Fast Bikes**  
**£125.99**  
Price includes VAT

The rate of VAT is 20%.

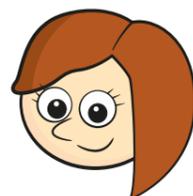
In which shop would it be cheaper to buy the bike? Show your working.

- 7 Rosie and Jack are calculating 99% of £250



Jack

You need to use a calculator for this as they are large numbers.



Rosie

I think it's possible to use a mental method for this.

Which mental method might Rosie use?

- 8 In 2007, the value of a house was £119,995  
From 2007 to 2018, house prices decreased by 9.4%.  
How much has the value of the house decreased by?




- 9 A car salesman earns commission for each car he sells.  
The commission is a percentage of his monthly salary, based on the values of the cars he sells.

Here is a table of his commissions.

Car value	Commission
< £15,000	2.3% of salary
≥ £15,000	5.7% of salary

His monthly base salary is £1,208

- a) How much commission does he earn from selling 1 car for less than £15,000?

- b) How much commission does he earn for selling 6 cars, each for less than £15,000?

- c) How much commission does he earn for selling 7 cars, each for more than £15,000?

- d) In January, he sells 6 cars that cost less than £15,000 and 7 cars that cost more than £15,000

How much does he get paid that month?

He gets paid

- 10 Mr Jones wants to put £850 into a bank account.

He looks at the interest rates from two different banks.

**Bank Central**

**First year:**  
3% of the original amount deposited

**Second year:**  
1.5% of the total amount at the end of year 1

**Bank Happy** 😊

**First year:**  
0.5% of the original amount deposited

**Second year:**  
4% of the total amount at the end of year 1

At the end of 2 years he wants to have made as much money as possible.

Which bank should Mr Jones use? \_\_\_\_\_

Explain your answer.

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