Percentages

GCSE Maths · Practice Questions

20 questions · 62 marks total

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Section A · Foundation

Questions 1–3 are the most straightforward; they get harder as you go on. Question 10 is the most challenging.

1 **[1 mark]**

Write 0.35 as a percentage.

2 **[2 marks]**

Work out 20% of 65

3 **[2 marks]**

Write 18 out of 40 as a percentage.

4 **[2 marks]**

Increase 200 by 12%

5 **[3 marks]**

A jacket costs £70.

In a sale the price is reduced by 30%.

Work out the sale price.

6 **[3 marks]**

Work out 17.5% of 480 without a calculator.

7 [3 marks]

Ben scored 34 out of 50 in a test.

Amy scored 27 out of 40 in a different test.

Who did better? You must show your working.

8 [3 marks]

Priya invests £500 for 3 years at 4% **simple** interest per year.

Work out the total amount in her account after 3 years.

9 [4 marks]

A house was bought for £180 000 and later sold for £207 000.

Work out the percentage increase in the value of the house.

10 [4 marks]

A laptop is advertised at £320 plus VAT at 20%.

(a) Work out the total price including VAT.

(b) A voucher takes 15% off the total price. Work out the price after the voucher.

Section B · Higher

Higher-tier style. Again, questions 1–3 are the gentlest and question 10 is the hardest.

1 [2 marks]

Write

(a) 0.8 as a percentage

(b) $\frac{3}{8}$ as a percentage

2 **[2 marks]**

Write down the single multiplier you would use for

(a) a 7% decrease

(b) a 3.5% increase

3 **[3 marks]**

After a 12% discount, a coat costs £52.80

Work out the original price of the coat.

4 **[3 marks]**

£4000 is invested at 2.5% compound interest per year.

Work out the value of the investment after 3 years, to the nearest penny.

5 **[4 marks]**

A car is worth £15 000 when new.

It loses 18% of its value in the first year, then 12% of its value in each year after that.

Work out the value of the car after 3 years.

6 **[4 marks]**

The price of a phone is increased by 20% and then decreased by 20%.

Show that the final price is 4% less than the original price.

7 **[4 marks]**

£2500 is invested at 4% compound interest per year.

Work out the least number of complete years before the investment is worth more than £3000.

8 **[4 marks]**

An investment grows by 10% compound interest each year.

After 3 years it is worth £6655.

Work out how much was invested at the start.

9 **[4 marks]**

In a club, 60% of the members are women.

25% of the women and 40% of the men wear glasses.

What percentage of all the members wear glasses?

10 **[5 marks]**

A television has a list price of £250.

Shop A takes 20% off, then a further 10% off the reduced price.

Shop B takes 30% off the list price.

(a) Work out the price in each shop.

(b) Which shop is cheaper, and by how much?

(c) Work out the single percentage reduction that Shop A actually gives.