

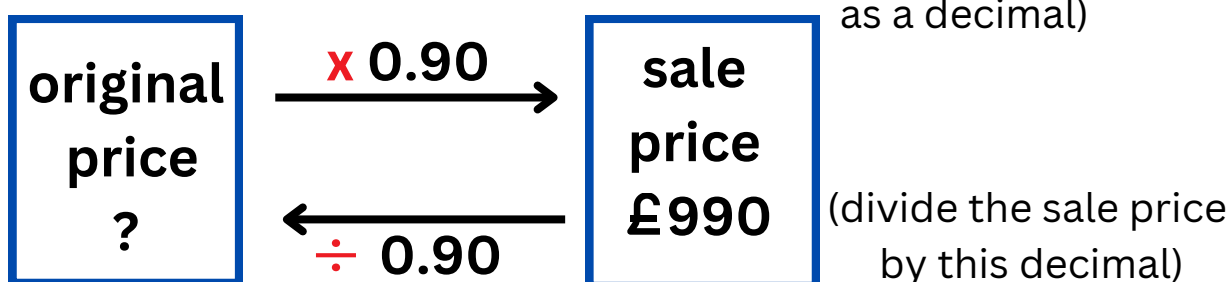
GCSE Predicted Topic Questions

Reverse percentage

Example 1

A television is on sale with a 10% discount.
The sale price of the television is £990.
Work out the original price of the television before the sale.

$$100\% - 10\% = 90\% = 0.90 \quad (\text{write percentage change as a decimal})$$

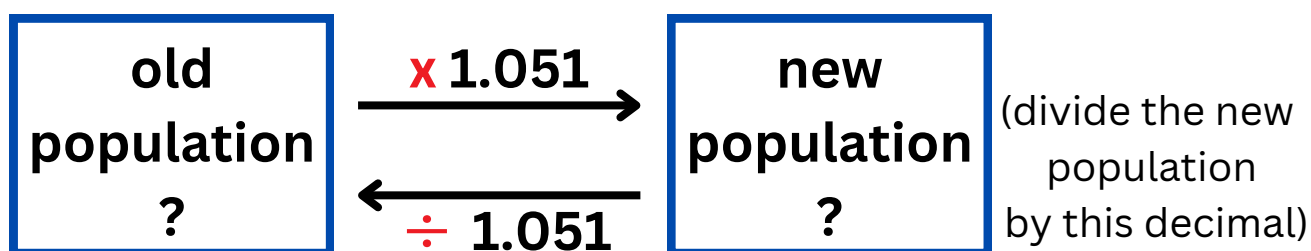


$$\text{original price} = 990 \div 0.90 = \text{£ } 1100$$

Example 2

The population of a town grew by 5.1% and is now at 8408.
work out the population before.

$$100\% + 5.1\% = 105.1\% \quad (\text{write percentage change as a decimal})$$
$$= 1.051$$



$$\text{Old population} = 8408 \div 1.051 = 8000$$

GCSE Predicted Topic Questions

Reverse Percentage

- 1 The value of an apartment increased by 25%.
The apartment then had a value of £275000

Work out the value of the apartment
before the increase.

(Total for question 1 is 2 marks)

- 2 In a sale, the normal price of a story book is
reduced by 20%.
The sale price of the story book is £ 6.40

Work out the normal price of the story book.

(Total for question 2 is 2 marks)

- 3 The normal price of a dinning table is decreased
to 20% in a sale.
The sale price of the dinning table is £ 860.

Work out the normal price of the dinning table
before the decrease.

(Total for question 3 is 2 marks)

GCSE Predicted Topic Questions

Reverse Percentage

- 4 In a sale, normal prices are reduced by 25%.
The normal price of a jacket is reduced by
£15.

Work out the normal price of the jacket.

(Total for question 4 is 2 marks)

- 5 A shirt costs £ 68.75 after a tax of 25%.

Work out the cost of the shirt before tax?

(Total for question 5 is 2 marks)

- 6 A chocolate bar now weighs 20% more than
previously.
It now weighs 72g.

Work out the weight of chocolate bar before.

(Total for question 6 is 2 marks)

GCSE Predicted Topic Questions

Reverse Percentage

- 7 The cost of a council tax bill increased by 10%.
The council tax bill increased by £122.

Work out the cost of the council tax bill
before the increase.

(Total for question 7 is 2 marks)

- 8 The price of a train ticket increased by 4%.
The price of the train ticket increased by
£195.20.

Work out the price of the train ticket before
the increase.

(Total for question 8 is 2 marks)

- 9 In a sale, normal prices are reduced by 20%.
The normal price of a watch is reduced by
£35.

Work out the normal price of the watch.

(Total for question 9 is 2 marks)

GCSE Predicted Topic Questions

Reverse Percentage

- 10 In a sale, the normal price of a car is reduced by 30%.

The sale price of the car is £ 5600.

Work out the normal price of the car.

(Total for question 10 is 2 marks)

- 11 The price of a laptop is increased by 5%.
The price of the laptop increased by £ 170.

Work out the price of the laptop before the increase.

(Total for question 11 is 2 marks)

- 12 In a sale, normal prices are reduced by 15%.
The normal price of a hat is reduced by £ 4.20.

Work out the normal price of the hat.

(Total for question 12 is 2 marks)
