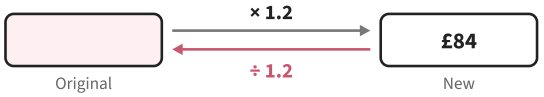
Reverse Percentages

1

After a 20% increase, a price is £84.
Work out the original price.



Multiplier 100% + 20% = 120% = 1.2

Original £84 ÷ 1.2 = ____

Answer _____

2

After a 10% decrease, a price is £153.
Work out the original price.



Multiplier 100% − 10% = 90% = 0.9

Original ____ ÷ ____ = ____

Answer _____

3

In a sale, a sofa is reduced by 35%.
It now costs £520. Work out the price before the sale.



Multiplier 100% − 35% = ____ = ____

Original ____ ÷ ____ = ____

Answer _____

4

A rent goes up by 6% to £901
a month. Work out the rent before it went up.



Multiplier _____

Original _____

Answer _____

5

After a 25% increase, a bus fare is £3.75. Use 1% to work out the fare before the increase.

Answer _____

6

A TV costs £340 after 15% off.
Tom says 15% of £340 is £51, so the price before was £340 + £51 = £391.
Explain his mistake, then work out the right price.

Answer _____

7

A kettle costs £58.80 including VAT at 20%. Work out the price before VAT.

Answer _____

8

The value of a flat went up by 12% in a year. It is now worth £238 000.
What was it worth a year ago?

Answer _____

Reverse Percentages *further practice*

9

After a 2.5% increase, a price is £1291.50. Work out the original price.

Answer _____

10

Find the original amount.
a) £90 after a 50% increase
b) £45 after a 25% decrease
c) £132 after a 10% increase
d) £19.50 after a 35% decrease

a) _____

b) _____

c) _____

d) _____

11

A school has 989 students. That is 15% more than last year. How many students did it have last year?

Answer _____

12

In a sale, a coat is reduced by 30% to £71.40. How much money is saved?

Answer _____

13

Shop A sells a jacket for £68 after 15% off. Shop B sells it for £76.50 after 10% off. Which shop had the higher price before the sale, and by how much?

Answer _____

14

A gym raises its monthly price by 8%. The price goes up by £3.60. What is the new monthly price?

Answer _____

15

A shop puts up the price of a lamp by 25%. Later, in a sale, it takes 10% off the new price. The sale price is £81. What was the price at the start?

Answer _____

16

A price falls by 20% to £48. Ella says the price before was £48 × 1.2 = £57.60. Is Ella right? Explain.

Answer _____