

Reverse Percentages

1. Find the original value for each of the following

Rise/Fall	New Value
a. Rise of 10%	£121 000
b. Fall of 10%	810 tonnes
c. Rise of 20%	420g
d. Fall of 25%	£4 500
e. Fall of 5%	£570
f. Rise of 20%	650kg
g. Rise of 40%	£5 600
h. Fall of 30%	\$63 000

2. A promotional box of cereal states “an extra 20% free”. The box now weighs 1350g. How much does the original box weigh?

3. After a 3% wage rise, a teacher now earns £41 406. How much did they earn before the wage rise?

4. A car depreciated by 12% since it was purchased. How much was the car bought for if the car is now valued at £11 880?

5. A restaurant automatically adds an 8% service charge to all food and drinks bought. The total bill, including the service charge, was £60.48. Calculate the cost of the food and drinks.

6. A stadium sold 80% of the tickets for a concert. If 33 660 tickets have been purchased, what is the total number of tickets that are still available?

7. A painting is currently valued at £35 000. The painting has risen by 25% since it was purchased 5 years. How much was painting purchased for 5 years ago?

8. A DIY had a special sale in which they reduced the price of all products by 20%. I paid £420 for a pack of slabs during the sale. How much did they cost before the sale?

9. A bottle of fruit juice has a volume of 5.61l. This is 12.5% less than the original. Find the volume of the original.