



Percentage Change

ANSWERS

Give answers to 1 decimal place.



Section A

Work out the percentage change for the amounts shown.

Original Amount	New Amount	% Change
10 m	12 m	20%
£8.99	£13.99	55.6%
560 kg	499 kg	-10.9%
0.031 lb	0.032 lb	3.2%

Section B

- When 150 cm^3 of water freezes, 162 cm^3 of ice is formed.
Calculate the percentage increase in the volume. **8%**
- Adrian buys a DVD for £19.99.
Three months later Adrian sells the DVD for £12.99.
What is the percentage loss? **35.0%**
- At the start of April a puppy weighed 11.3 kg. In April it grew by 12%.
At the start of June the puppy weighed 14.8 kg.
What was the percentage growth in May? **16.9%**
- When a discount is added to the cost of a car, its price decreases from £14'000 to £11'900. What percentage reduction is this? **15%**
- A rectangle has length 14 cm and width 9.5 cm.
The length increased by 6% and the width increased by 15%.
 - Calculate the percentage change in area of the rectangle. **21.9%**
 - What is the original area as a percentage of the increased area of the rectangle? **82.0%**
- * A shoe shop has a sale.
During the sale a pair of shoes are reduced by 30%.
After the sale the same pair of shoes are increased by 10%.
 - By what percentage has the value of the shoes changed from before the sale to after the sale? **23%**
 - Are the pair of shoes cheaper or more expensive after the sale has ended than they were before the sale started? **Cheaper**