

Examples




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Workout

Question 1 

- |                                |                          |                          |
|--------------------------------|--------------------------|--------------------------|
| (a) Increase 20 by 50%         | (b) Increase 60p by 10%  | (c) Increase 12g by 25%  |
| (d) Increase 400 litres by 20% | (e) Increase 32ml by 75% | (f) Increase 70m by 40%  |
| (g) Increase 9000 by 5%        | (h) Increase £7 by 20%   | (i) Increase 9kg by 100% |

Question 2 

- |                          |                              |                         |
|--------------------------|------------------------------|-------------------------|
| (a) Decrease 40 by 10%   | (b) Decrease 30 hours by 50% | (c) Decrease 8kg by 25% |
| (d) Decrease 55cm by 40% | (e) Decrease 64 by 75%       | (f) Decrease £3 by 10%  |
| (g) Decrease 1400 by 30% | (h) Decrease 500g by 3%      | (i) Decrease 6kg by 5%  |

Question 3 

- |                           |                            |                         |
|---------------------------|----------------------------|-------------------------|
| (a) Increase 80ml by 9%   | (b) Increase 420g by 70%   | (c) Decrease 8 by 12%   |
| (d) Decrease £1250 by 38% | (e) Increase 6000km by 23% | (f) Decrease 48GB by 6% |
| (g) Increase 204 by 98%   | (h) Decrease 149mm by 91%  | (i) Increase 88 by 185% |

Question 4 

- |                            |                           |                         |
|----------------------------|---------------------------|-------------------------|
| (a) Decrease 90ml by 7.5%  | (b) Increase £670 by 1.2% | (c) Increase 3 by 67.4% |
| (d) Increase 750cm by 0.8% |                           |                         |

Apply

Question 1: Last year, there was 20 students in a class.



This year, there are 30% more students.  
How many students are in the class this year?

Question 2: A TV normally costs £520.  
In a sale, all prices are reduced by 10%  
Calculate the sale price of the TV



Question 3: Over the past 10 years, the population of a town has increased by 25%  
The population of the town 10 years ago was 18000  
What is the population of the town now?



Question 4: A standard bag of flour contains 600g of flour.  
A special edition bag contains 35% more flour.  
How much flour is in the special edition bag?



Question 5: Richard owns a coffee shop.  
In February, 4500 hot chocolates were sold.  
The number of hot chocolates sold in March was 3% less.  
How many hot chocolates are sold in March?



Question 6: Gabriel's salary is £24500.  
Next year he is due to get a 9% increase.  
What will his new salary be?



Question 7: Iris spends £40 a month on water.  
By changing company, Iris can save 16%.  
How much would Iris pay each month?



Question 8: An empty flowerpot has a mass of 800g.  
The mass of the flowerpot increases to 4kg when filled with soil.  
A different flowerpot is 25% lighter but holds 40% more soil.  
Calculate the mass of this flowerpot when it is full of soil.



## Increasing/Decreasing by a Percentage

Video 238 on [www.corbettmaths.com](http://www.corbettmaths.com)

Question 9: Louis sees this special offer in a shop.



Louis buys both items.  
How much does he pay?

### Special Offer

iPad £489

Case £55

Buy both items and receive a 3% discount

Question 10: An adult ticket for the cinema costs £13.40  
A child ticket is half the price of an adult ticket.  
Mr and Mrs Henderson and their six children go to see a movie.  
Mrs Henderson has a voucher for 18% off.  
Work out how much Mrs Henderson pays for the tickets.



Question 11: Zara wants to buy 72 candles.  
Each candle costs £4.80



There is a special offer

Work out the cost of buying 72 candles  
using the special offer.

### Special Offer

Candles £4.80 each

Buy 60 or more candles and  
get 15% off the total cost.

Question 12: When a tennis ball is dropped, it bounces and then rises.  
The ball rises to 80% of the height from which it is dropped.  
The ball is dropped from a height of 4 metres.



- Calculate the height of the rise after the first bounce.
- Calculate the height of the rise after the second bounce.

The ball carries on bouncing, each time rising to 80% of the last rise.

- For how many bounces does the ball rise to a height greater than 10cm?

Answers



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