

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 were 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

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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