

Examples

Workout



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Question 1: 20% of all the children in a class are left handed.
4 children are left handed.
How many children are there in the class altogether?



Question 2: 30% of the members of a tennis club are pensioners.
36 members are pensioners.



- (a) How many members are there in total?
(b) How many members are not pensioners?

Question 3: A group of people sit their driving theory test and 24 people passed.
80% of the people passed the driving theory test.
How many people sat the test altogether?



Question 4: An energy bar contains 2.1g of protein.
6% of the bar is protein.
What is the total mass of the bar?



Question 5: Swansea is a city in Wales.
The population of Swansea is 240,000
This population is 7.5% of the total population of Wales.
What is the total population of Wales?



Question 6: Heather invested money into a savers bank account.
Each year the money in the account earns 10% interest.
After one year, the total amount of money in the account was £2200
How much did Heather invest?



Question 7: A chair is on sale at a price of £20.80
This is a 20% reduction of the normal price.
What was the price of the chair before the reduction?



Question 8: The population of an island has decreased by 40% over 50 years.
The population in 2018 was 360
What was the population in 1968?



Question 9: Sinead buys a watch.
20% VAT is added to the price of the watch.
Sinead then has to pay a total of £60
What is the price of the watch with no VAT added?



Reverse Percentages

Video 240 on www.corbettmaths.com

Question 10: Lucy has 68 books.



This number of books is 70% more than the number of books she had last year.
How many books did Lucy have last year?

Question 11: Henry invested money into a bank account.



Each year the money in the account earns 3% interest.
After one year, the total amount of money in the account was £169.95
How much did Henry invest?

Question 12: In a sale, the price of lawnmowers are decreased by 16%



Jude buys a lawnmower in the sale for £369.60
How much was the lawnmower before the sale?

Question 13: Evie is given a 22% pay rise.



Her new salary is £21960
What was Evie's salary before the pay rise?

Question 14: A limited edition bag of sugar contains 35% more than a standard bag.



The limited edition bag contains 702g of sugar.
How much sugar is in the standard bag?

Question 15: An oil tank has sprung a leak and loses 77.5% of its contents.



There is now 333 litres of oil in the oil tank.
How much oil was in the oil tank before the leak?

Question 16: Miss Jenkins buys a car costing £11895



This cost includes VAT at a rate of 20%
How much is the VAT?

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Question 1: In a sale, a shop reduces all its prices by 10%.



On the last day of the sale, the shop reduces the sale prices by 20%

On the last day of the sale, a mobile phone costs £432

How much was the mobile phone before the sale?

Question 2: In 2008, Evan bought a car.



In 2010, Evan sold the car to Grace.
Evan made a loss of 25%

In 2018, Grace sold the car for £15225
Grace made a profit of 45%

Work out how much Evan bought the car for in 2008.

Question 3: There are 1500 people at an ice hockey match.



The announcer says that this is exactly 30% more people than the previous match.

Explain why the announcer is wrong.

Question 4: Gerard and Martin were both given a pay rise.



Gerard was given a 25% pay rise and Martin a 5% pay rise.
The ratio of Gerard's salary to Martin's salary is now 12:7

Martin is now paid £21000

Work out Gerard's pay before the pay rise.

Question 5: Michael bought a hat and a coat.



The hat cost £10

He sold both items for a total of £90

Michael made 200% profit on the hat and 80% profit on the total cost.

Work out the percentage profit on the cost of the coat.

Question 6: Leonie bought a hat and a coat.



The hat cost £6

She sold both items for a total of £45

Leonie made 300% profit on the hat and 125% profit on the total cost.

Work out her percentage profit on the cost of the coat.

Question 7: Trevor is a car salesman.



He bought a car for £5000

Currently he is holding a sale with 35% off the price of all cars.

Trevor wants to sell the car so that he makes a 10% profit on the price he paid.

How much should Trevor advertise the car for?

Answers



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