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?
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?

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?