Reverse Percentages Practice

Q1. The value of an antique vase has increased by 4% and is now worth £1872. Work out the value of the vase before the increase.

[2 marks]

Q2. In a sale, the normal price of a shirt is reduced by 30%. The sale price of the shirt is £6.30. Work out the normal price of the shirt.

[2 marks]

Q3. In a supermarket, bags of sugar have been increased by 6% due to the cost of importing the product from abroad. Given that bags now cost £1.59, how much did the supermarket charge before the price increase?

[2 marks]

Q4. In a sale, normal prices are reduced by 35%. If the normal price of a coat is reduced by £52.50, work out the normal price of the coat.

[2 marks]

Q5. In a sale, the normal price of a microwave oven is reduced by 22%. The sale price of the microwave is £67.08. Work out the normal price of the oven.

[2 marks]

Q6. The annual cost of a council tax bill increased by 8%. The council tax bill increased by £58. Work out the cost of the council tax bill before the increase.

[2 marks]

Q7. The price of a PC workstation decreased by 7.5%. If the price of the workstation decreased by £120, find the original price.

[2 marks]

Q8. One day, George is given a pay rise of 4%. Later that year, he receives another pay rise of 2%. If he now earns £2545.92 per month, work out how much his monthly salary was before the two pay increases.

[3 marks]

Q9. At the start of 2019, the value of Jeremy's investment was £28,000. During that year, it decreased in value by 4% . In 2020, it then increased in value by x%. If it was worth £27,283.20 at the end of 2020, find the value of x.

[3 marks]

Q10. Jo's tortoise increased in weight by 1% each year since its birth. If it is now 3 years old, and weighs 4 kg, find the birth weight to the nearest gram.

[3 marks]

Reverse Percentage, or not?

Q11. The population of birds on St. Michael's island is 2200. Scientists state that the population is growing by 10% each year. What will be the population next year, according to the scientists?

[2 marks]

Q12. A car cost £8500 when it is bought, and depreciates by 15% over the first year after purchase. How much will it be worth after 1 year?

[2 marks]

Q13. John's kitchen measured 11.5 m² after he had an extension built. The area had increased by 25% after extending. What area did his kitchen cover before?

[2 marks]

Q14. After half-time, the number of spectators at a rugby match decreases by 9%. There were 45,000 spectators before half-time. How many remain?

[2 marks]

Q15. Mae buys a ring which costs £68. This cost includes VAT at a rate of 20%. How much is the watch without VAT, to the nearest penny?

[2 marks]