Compound Interest Exam Questions

Source: 2019 P1 Q1 N5 Maths

1 A charity distributed 80 000 emergency packages during 2018.

This number is expected to increase by 15% each year.

Calculate how many emergency packages the charity expects to distribute in 2021.

Answer: $Packages = 121,670$

Source: 2018 P2 Q1 N5 Maths

2 Households in a city produced a total of 125 000 tonnes of waste in 2017.

The total amount of waste is expected to fall by 2% each year.

Calculate the total amount of waste these households are expected to produce in 2020.

Answer: $117,649\ tonnes$

Source: 2017 P2 Q2 N5 Maths

3 A necklace is valued at £1200.

Its value is expected to increase by 4·5% per year over the next 3 years.

Calculate the expected value of the necklace after this time.

Give your answer to the nearest pound.

Answer: $Value = £1369$

4	A drinks manufacturer is reducing the sugar content of one of their fizzy drinks by 8% per year over the next 3 years. The sugar content of a standard can is currently 35 grams. Calculate the sugar content of a standard can after 3 years.

Answer: $27.(25408)$ $grams$