



Compound Interest

Video 236 on www.corbettmaths.com



The number of people living on a remote island decreases by 9% every 10 years.
In 1950 there were 18000 living on the island.
Calculate how many less people will be living on the island in 2020.

Question 10: A car was bought for £20,000.



Its value depreciates by 31% each year for the first four years. What is its values at the end of the four years?

Question 11: A tree is 80cm when planted.



Each year the height of the tree increases by 22%.





There are 3000 polar bears in the region in 2017. What year will be the first year with less than 1000 polar bears in the region?

Question 13: Michael has started working for a company on a salary of £15000. Each year he will be given a 6% pay rise.

How many years will it take for Michael's salary to exceed £30000?

Question 14: The value of a car decreases by 7.2% each year. When bought the car cost £6200. How many years will it take the car to have a va



How many years will it take the car to have a value less than £1000?

Question 15: A full water tank has sprung a leak.

4% of the water is lost every minute.

What percentage of water is left in the tank after twenty minutes?

Question 16: A fish tank, that is full of water, has sprung a leak.



12% of the water is lost every hour. What percentage of the water is lost after three hours?



Question 1:Florence invests £200 for two years at 5% compound interest, paid yearly.Liam says that the interest that Florence will receive will be £20.Is Liam right?

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