

QT Growth & Decay

1. George invested £3200 in a savings account for 3 years. He was paid compound interest at a rate of 3.5% per annum. Work out how much was in the account after 3 years?

(03.5%

€3547.90

Tony invested £4500 for 3 years. He was paid 4% per annum compound interest.Calculate the total amount of interest Tony will get after 3 years.

1.407

3. Jayden invested £2400 for n years in a savings account. He was paid 7.5% per annum compound interest. At the end of n years he had £3445.51 in the savings account. Work out the value of n.

107.55.

4. Daljit bought a new campervan that had a value of £36,000. Each year the value of the campervan will depreciate by 22%. Work out the value of the campervan after 4 years.

185

€ 133TL.AT.



5. Josh bought a new car for £16500.

(751) In the first year the value of the car depreciates by 25%.

In the second year and the third year the car depreciates by 12% (\$\forall \cong \forall \for Work out the value of the car after three years.

162 foor 16500 +0.75 = 17372 220 1300 tears total = original x multiplier = 12375 x 0.592 = 958 £9583. LO

Carys is going to invest some money for 5 years. She can choose from two options:

\$ 10,000

Brilliant Bank 2.6% per annum (0).6/ compound interest

Super Duper Bank 2.7% per annum simple interest

Which investment should Carys choose? You must show your working.

3rilliant Bank

TODE = Original combitiblier

= 10,000 x 1.026

= 11369.3r

State(# 11369.38 - 270 x 5 = 1350 I tough 11369.38_

10,000.00 € 1364.38

Bri Dank Book.