

Compound Interest

HOW to ... every year...the amount at the stock of year oranges

* Viv wants to invest £2000 for 2 years in the same bank.

The International Bank Compound Interest 4% for the first year 1% for each extra year O.5% for each extra year

At the end of two years, Viv wants to have as much money as possible.

Which bank should she invest her £2000 in?

The Friendly Bank
5% of 2000 = £100
Year 1 = 2000 + 100 = 2100
0.5% of 2100 = £10.50
Year2 = 2100+10.50 = 2110.50 (4) ey wilh the Frendly

Now have a go yourself

- (1) £4000 is invested for 2 years at 5% per annum compound interest. Work out the total interest over the 2 years.
- (2) £700 is invested for 3 years at 2.5% per annum compound interest. Work out the total interest over the 3 years.
- (3) £3600 is invested for 3 years at 2.6% per annum compound interest. Work out the amount of interest earned over the 3 years.
- (4) £300 is invested for 2 years at 9% per annum compound interest. Work out the balance at the end of 2 years.
- (5) A car is bought new for £8000. The value of the car depreciates by 10% each year. Work out the value of the car after 3 years.
- (6) Mrs Jones buys a house for £80,000. In the first year the value of the house increases by 16%. In the second year, the value of the house decreases by 4%. Work out the value of the house after 2 years.
- (7) Mr Jones deposits £3000 in a bank account. Compound interest is paid at a rate of 4%. Mr Jones wants to leave the money in the account until there is at least £4000. How many years must be leave the money in the bank account?

Exam Questions

(1) Aminah invested £2500 for n years in a savings account. She was paid 3% per annum compound interest.

At the end of n years, Aminah has £2813.77 in the savings account.

Work out the value of *n*.

(2)

(2) Tom invested £4500 for 2 years in a savings account. He was paid 4% per annum compound interest.

How much did Tom have in his savings account after 2 years?

Ready to be marked?

Checklist			
1		Answers checked	
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No.	What v	vent well	
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7 -			
Teacher comment			