

- £10 000 is invested in a savings bond. How much money will the bond be worth at the % rate per annum given and term indicated?
 - 3% , 4 years
 - 5% , 9 years
 - 7% , 15 years
 - 4.75% , 19 months
 - 5.25% , 26 months
 - 6.25% , 37 months
- A country of 21 million people increases its population by 3% every year. What will the population be after the following time has elapsed. Neglect any decimals in the answer.
 - 5 years
 - 7 years 7 months
 - 1000 days
- The level of activity of a radioactive source decreases by 3% per hour. For each initial level of activity given, what will the activity be after the time indicated? Answer to the nearest whole number.
 - 2000 counts/sec. 5 hours
 - 10 000 counts/sec. 13 hours
 - 9600 counts/sec. 6.5 hours
 - 1700 counts/sec. 45 minutes
 - 850 counts/sec. 1 week
 - 3000 counts/sec. 17 minutes
- A nurse wants to have savings of £5000 in two years to buy her first car. She finds an account that pays 5% interest compounded yearly. How much should she put into her account to have the £5000 at the end of two years? (answer to decimal places)
- A bank is offering to double your money! They say that if you invest with them at 4% interest compounded yearly they will double your money. How many years will it take to double your money if you invest £2000 in the account? (answer to decimal places)

1.

(a) £11255.09

(b) £15513.28

(c) £27590.32

(d) £10762.27

(e) £11172.63

(f) £12055.14

2.

(a) 24,344,755

(b) 26,276,285

(c) 22,771,586

3.

(a) 1717 counts/sec.

(b) 6730 counts/sec.

(c) 7876 counts/sec.

(d) 1662 counts/sec.

(e) 5 counts/sec.

(f) 2974 counts/sec.

4. £4319.19

5. 17.67 years