

Compound Interest and Depreciation *fluency* ANSWERS



Compound interest, per year. Find the value after the time given.

1 £500 at 4%, 2 years *£540.80*

2 £1000 at 3%, 2 years *£1060.90*

3 £2000 at 5%, 3 years *£2315.25*

4 £800 at 10%, 2 years *£968.00*

5 £1500 at 2%, 3 years *£1591.81*

6 £400 at 6%, 2 years *£449.44*



The value goes down by the percentage each year. Find the value after the time given.

7 £8000 at 15%, 2 years *£5780.00*

8 £12 000 at 20%, 3 years *£6144.00*

9 £500 at 10%, 2 years *£405.00*

10 £2500 at 4%, 3 years *£2211.84*

11 £900 at 30%, 2 years *£441.00*

12 £16 000 at 25%, 2 years *£9000.00*



Compound interest, per year. Give your answer to the nearest penny.

13 £1200 at 3%, 5 years *£1391.13*

14 £750 at 4%, 6 years *£948.99*

15 £3000 at 2%, 10 years *£3656.98*

16 £5000 at 6%, 4 years *£6312.38*

17 £250 at 8%, 7 years *£428.46*

18 £10 000 at 1%, 12 years *£11 268.25*



Give your answer to the nearest penny

19 £600, up 2.5%, 4 years
£662.29

20 £4000, down 12.5%, 3 years
£2679.69

21 £1800, up 1.8%, 5 years
£1967.94

22 £950, down 7.5%, 4 years
£695.49

23 £20 000, up 3.75%, 6 years
£24 943.57

24 £360, down 0.5%, 10 years
£342.40



How many whole years until the value first goes past the amount?

25 £1000, up 5%, over £1300
6 years

26 £2000, up 3%, over £2400
7 years

27 £500, up 8%, over £1000
10 years

28 £1000, down 15%, under £500
5 years

29 £800, down 20%, under £400
4 years

30 £1500, up 2.5%, over £1800
8 years