Outcome 3 - Depreciation

Bronze example

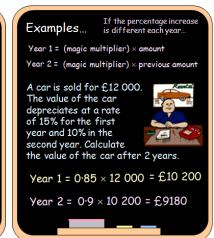
Examples... (magic multiplier) time × amount An antique watch depreciates in value at a rate of 4% p.a. It was worth £600. How much will it be worth in 3 years time? 100% - 4% = 96%

Silver example

Examples... (magic multiplier) time × amount An antique watch depreciates in value at a rate of 3.8% p.a. It was worth £400. How much will it be worth in 2 years time? 100% - 3.8% = 96.2% Magic Multiplier = 0.962

 $(0.962)^2 \times 400 = £370.18$

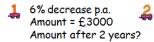
Gold example



Bronze Questions

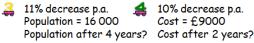
Calculate the following after depreciation...

 $(0.96)^3 \times 600 = £530.84$



Magic Multiplier = 0.96

5% decrease p.a. Value = £400 Value after 3 years?



🚄 10% decrease p.a. Cost = £.9000

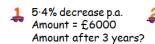




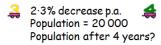
Value = £1100 Value after 5 years?

Silver Questions

Calculate the following after depreciation...



4.8% decrease p.a. Value = £500 Value after 2 years?



3.65% decrease p.a. Cost = £7000 Cost after 3 years?



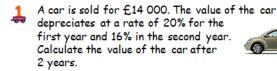




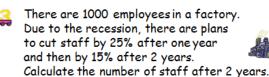
Value = £400 Value after 5 years?



Calculate the following after depreciation...



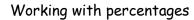
Sales of a best selling maths textbook were 3000 in one year. Sales fell by 10% for the first year and 20% in the second year. Calculate the number of copies sold after 2 years..











Bronze Answers

1. £2650·80

2. £342.95

3. 10 038

4. £7290

5. 18⋅5 °C

6. £360·45

Silver Answers

1. £5079·54

2. £453·15

3. 18 222

4. £6261·14

5. 18·62 °C

6. £238·44

Gold Answers

1. £9408

2. 2160 copies

3. 637 employees