



Hyperinflation: 1920s Germany

NAME:

CLASS:

DATE:



Basic

1) Change the following percentages to decimals:

- a) 10% b) 25% c) 88%
- d) 93% e) 63%

2) Converting to decimals and calculate the following:

- a) 24% of £180 b) 19% of 60kg c) 28% of 650ml
- d) 64% of £7.50 e) 2% of 350m f) 85% of 40p

3) James inherits a farm with 600,000m² of land. 45% is grazed, 30% has crops and the rest is woodland. What area is:

- a) grazed? b) for crops? c) woodland?

4) A garage buys a car for £8259 and it sells the car for £9999.

a) How much profit has the garage made?

b) Express the profit as a percentage of the cost price. Give your answer to one decimal place.

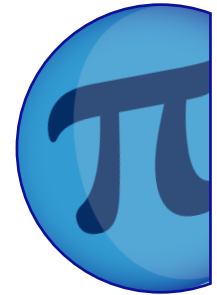


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Core

- 1) What is the compound interest on £4500 at a rate of 3% (per annum) for four years?
- 2) An antique doll valued at £480 in 2008 has increased in value at a rate of 12.5% per annum. Calculate the value of the doll in 2012.
- 3) On retiring from work, Mr Graham received a lump sum of £63,800. He decided to invest his money in a premium account earning 7.75% interest per annum. How much would Mr Graham receive after five years?
- 4) A painting valued at £80,000 in 2006 has appreciated at a rate of 14% per annum. What was the value of the painting in 2012?
- 5) A new hatchback car cost £11,000 in 2008. The value of the car will depreciate at a rate of 12% per annum. What is the value of the car four years later?
- 6) A car rental company purchases cars costing £15,000 each. The value of each car depreciates by 30% in the first year and then by 15% in each successive year. Each car is replaced at the end of the year in which its current value falls below half its original value. After how many years will the company replace a car?



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Advanced

1) Sarah deposits £8500 in a savings account at 3.2% interest.

a) How much will she have in her account in five years time?

b) How much interest will Sarah make over the five years?

2) Mr and Mrs Ramage bought their house for £179,000. For the last three years it has appreciated in value by 6.5%. Calculate the present value of the house, giving your answer correct to three significant figures.

3) Between 2011 and 2012 a music system increased in value by 20%. If the stereo cost £840 in 2012, what was its value in 2011?

4) Jennifer is 136cm tall. If she is 85% of the height of Scott, what is Scott's height?

5) It costs £180 for a child's airplane fare. If this represents 60% of the adult fare, what is the cost of an adult fare?



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ANSWERS

Basic

- | | | |
|-----------------------------|--------------------------|--------------------------|
| 1) a) 0.1 | b) 0.25 | c) 0.88 |
| d) 0.93 | e) 0.63 | |
| 2) a) £43.20 | b) 11.4kg | c) 182ml |
| d) £4.80 | e) 7m | f) 34p |
| 3) a) 270,000m ² | b) 180,000m ² | c) 150,000m ² |
| 4) a) £1740 | b) 21.1% | |

Core

- 1) £564.79
- 2) £683.44
- 3) £92,663.15
- 4) £154,033.17
- 5) £6596.65
- 6) Four years

Advanced

- 1) a) £9949.87 b) £1449.87
- 2) £216,000
- 3) £700
- 4) 160cm
- 5) £300