

Appreciation and depreciation Int. 2 pp 2001 - 2011

2001 P2

Marks

- A
1. The population of a city is increasing at a steady rate of 2.4% per annum. The present population is 528 000.  
What is the expected population in 4 years time?  
Give your answer to the nearest thousand.

3

2002 P2

- B
10. The population of Newtown is 50 000.  
The population of Newtown is **increasing** at a steady rate of 5% per annum.  
The population of Coaltown is 108 000.  
The population of Coaltown is **decreasing** at a steady rate of 20% per annum.  
How many years will it take until the population of Newtown is greater than the population of Coaltown?

5

2004 P2

- C
1. The average Scottish house price is £77 900.  
The average price is expected to rise by 2.5% per month. What will the average Scottish house price be in 3 months?  
Give your answer correct to three significant figures.

3

2006 P2

- D
1. The value of a boat decreased from £35 000 to £32 200 in one year.  
(a) What was the percentage decrease?  
(b) If the value of the boat continued to fall at this rate, what would its value be after a further 3 years?  
Give your answer to the nearest hundred pounds.

1

3

2005 P2

- E
1. In the evening, the temperature in a greenhouse drops by 4% per hour.  
At 8 pm the temperature is 28° Celsius.  
What will the temperature be at 11 pm?

3

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2007 P2

Marks

1. Ian's annual salary is £28 400. His boss tells him that his salary will increase by 2.3% per annum.

F

What will Ian's annual salary be after 3 years?

Give your answer to the nearest pound.

3

2008 P2

1. Calculate the compound interest earned when £50 000 is invested for 4 years at 4.5% per annum.

G

Give your answer to the nearest penny.

4