HIGHER

6.4 Repeated Percentage Change: 10-minute Pack

EDEXCEL 1MA1 · Calculator allowed · about 10 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Write down the single decimal multiplier for a percentage decrease of 15%.

(Total for Question 1 is 1 mark)

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2 Ravi buys a motorbike for £3200. It depreciates (loses value) by 12% in its first year.

(a) Write down the multiplier used to decrease an amount by 12%. **(1)**

.....

(b) Work out the value of the motorbike after 1 year. **(2)**

.....

(Total for Question 2 is 3 marks)

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3 A tool costs £850 new. It depreciates by 12% per year. Find its value after 2 years, to the nearest penny.

(Total for Question 3 is 2 marks)

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4 The price of a laptop is £40. It increases by 5% per year for 2 years. Calculate the new price.

(Total for Question 4 is 2 marks)

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Mark scheme · 6.4 Repeated Percentage Change: 10-minute Pack

Question 1

0.85 oe **B1**

Answer: 0.85

Question 2

(a) 0.88 cao **B1**

(a) Answer: 0.88

(b) 3200 x 0.88 (oe), ft their (a) **M1**

(b) 2816 cao **A1**

(b) Answer: £2816

Question 3

$850 * 0.88^2$ oe **M1**

awrt £658.24 **A1**

Answer: £658.24

Question 4

$40 * 1.05^2$ (or 40 * 1.05 * 1.05) oe **M1**

44.10 cao **A1**

Answer: £44.10

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