3.7 Percentage Change and Multipliers: 10-minute Pack

Calculators not allowed · about 10 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Sam buys a bicycle for £150 and sells it to a friend making a 12% profit. The friend then sells the bicycle to another person at a 15% loss on the price they paid. Work out the final selling price to the third person. Give your answer to the nearest penny.

(4)

2 Write down the multiplier to increase an amount by 250%.

(1)

3 A table price including VAT is £240. The VAT rate is 20% added to the original price. Work out the price before VAT was added.

(3)

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Mark scheme · 3.7 Percentage Change and Multipliers: 10-minute Pack

Question 1

apply 12% profit: 150 x 1.12 = 168.00 or evidence	**M1**
apply 15% loss: 168 x 0.85 or equivalent	**M1**
correct multiplication 168 x 0.85 = 142.8	**M1**
£142.80 cao	**A1**

Answer: **£142.80**

Question 2

3.5 or 3.50 cao (100% + 250% = 350% = 3.5)	**B1**

Answer: **3.5**

Question 3

recognition that 240 = 120% of original or use 240 / 1.2	**M1**
division to find original price	**M1**
£200 cao	**A1**

Answer: **£200**

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