1.11 Percentages of Amounts and Percentage Change: 30-minute Pack

Calculators not allowed · about 30 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 A pair of trainers costs £160. During a sale the price is reduced by 25%. Later the shop increases that reduced price by 20%. Work out the final price after both changes.

(a) Find the price after the 25% reduction. **(2)**

.....

(b) Starting from the reduced price, work out the final price after increasing by 20%. **(4)**

.....

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2 Stretch problem. During a clearance sale a camera is sold for £264 after a 12% reduction. Work out the original price before the reduction.

(6)

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3 After a 5% reduction, the price of a pair of trainers is £47.50. Work out the original price.

(3)

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4 Find 5% of each amount without a calculator.

(a) 5% of 80 **(1)**

.....

(b) 5% of 1,200 **(1)**

.....

(c) 5% of 0.9 m **(1)**

.....

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5 Work out 12% of 60.

(2)

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6 (a) Write down the multiplier for a 4% increase.
(b) Use your multiplier to increase 50 by 4%.

(2)

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7 A jumper costs £48. It is reduced by 20%. Calculate the sale price.

(2)

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Mark scheme · 1.11 Percentages of Amounts and Percentage Change: 30-minute Pack

A correct answer earns full marks unless the question asks for working, a method, proof or explanation.

Question 1

(a) method to find 25% of 160 or multiplier 0.75 used	**M1**
(a) £120 cao	**A1**
(a) Answer: **£120**	
(b) method to find 20% of 120 or multiplier 1.2 used	**M1**
(b) correct addition of the 20% to the reduced price	**M1**
(b) £144 cao	**A1**
(b) final answer stated with currency cao	**A1**
(b) Answer: **£144**	

Question 2

recognition that the sale price is 88% of the original price (multiplier 0.88)	**M1**
method to find the original price, e.g. divide the sale price by 0.88 or find 1% as 264 / 88	**M1**
correct calculation shown, e.g. 264 / 0.88 or 264 / 88 = 3	**M1**
£3 (value of 1%) or 300 seen	**A1**
£300 cao	**A1**
final answer presented clearly with currency cao	**A1**
Answer: **£300**	

Question 3

multiplier 0.95 (or 95% = £47.50)	**M1**
£47.50 ÷ 0.95	**M1**
£50 cao	**A1**
Answer: **£50**	

Question 4

(a) 4 cao	**B1**
(a) Answer: **4**	
(b) 60 cao	**B1**
(b) Answer: **60**	
(c) 0.045 m cao	**B1**
(c) Answer: **0.045 m**	

Question 5

10% = 6 or 12/100 x 60 seen	**M1**
7.2 cao	**A1**
Answer: **7.2**	

Question 6

(a) 1.04	**B1**
(b) 52	**B1**
Answer: **(a) 1.04, (b) 52**	

Question 7

correct method to find 20% or 80% of 48, e.g. 10% = 4.8, 20% = 9.6 or 48 x 0.8 oe	**M1**
£38.40 cao	**A1**
Answer: **£38.40**	

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