2.12 Writing and Using Formulae: 10-minute Pack

Calculators not allowed · about 10 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 A mobile phone company charges a fixed monthly fee F plus 12 p per minute for calls. The cost in pence is C = F + 12m where m is minutes.

(a) If F = 350p, find C for m = 40 minutes. **(2)**

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(b) If a customer pays 674p in total and F = 350p, how many minutes did they use? Give your answer as an integer. **(1)**

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2 Make t the subject of the formula v = u + 9t.

(3)

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3 The cost, C pounds, of hiring a ladder for h days is given by C = 45 + 4h.
Work out the cost of hiring the ladder for 3 days.

(2)

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Mark scheme · 2.12 Writing and Using Formulae: 10-minute Pack

Question 1

(a) substitution C = 350 + 12 x 40 or equivalent	**M1**
(a) 830p cao	**A1**

(a) Answer: **830**

(b) m = 27 cao	**B1**

(b) Answer: **27**

Question 2

correct first step (e.g. undo the addition or subtraction)	**M1**
correct second step (divide by the coefficient)	**M1**
(v - u)/9 oe cao	**A1**

Answer: **t = (v - u)/9**

Question 3

substitutes h = 3: 45 + 4 x 3	**M1**
£57 cao	**A1**

Answer: **£57**

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