6.1 Introduction to Algebra: 10-minute Pack

Total Marks

NCETM National Curriculum (2014) Mathematics - KS2 Algebra · Calculators not allowed · about 10 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Find the missing number in each equation.

(a) 9 + ___ = 14 **(1)**

.....

(b) ___ - 7 = 8 **(1)**

.....

(c) 3 x ___ = 18 **(1)**

.....

2 Simplify each expression by collecting like terms.

(a) 3n + 2n **(1)**

(b) 5m + 2 - 2m **(2)**

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3 A rectangle has length (x + 3) cm and width 5 cm. The perimeter of the rectangle is 36 cm. Work out the value of x. Show your working.

Diagram NOT accurately drawn



(3)

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Mark scheme · 6.1 Introduction to Algebra: 10-minute Pack

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

Question 1

(a) 5 cao	**B1**
(a) Answer: **5**	
(b) 15 cao	**B1**
(b) Answer: **15**	
(c) 6 cao	**B1**
(c) Answer: **6**	

Question 2

(a) 5n cao	**B1**
(a) Answer: **5n**	
(b) 5m - 2m (= 3m) seen or implied	**M1**
(b) 3m + 2 cao	**A1**
(b) Answer: **3m + 2**	

Question 3

forms 2(x + 3) + 2(5) = 36 oe, or an equivalent correct method	**M1**
2x + 16 = 36 leading to 2x = 20, dependent on the previous method mark	**dM1**
x = 10 cao	**A1**
Answer: **x = 10**	

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