2.2 Algebra: Equations: 10-minute Pack

Calculator allowed · about 10 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Solve each equation, showing your working.

(a) 3x + 4 = 19 **(2)**

.....

(b) 5x - 3 = 22 **(2)**

.....

(c) 2x + 7 = 1 **(2)**

.....

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2 A rectangle has length (x + 3) cm and width x cm. The perimeter of the rectangle is 34 cm. Form an equation and solve it to find x.

Diagram NOT accurately drawn



Perimeter = 34 cm

(3)

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Mark scheme · 2.2 Algebra: Equations: 10-minute Pack

Question 1

(a) correct rearrangement, 3x = 15 oe	**M1**
(a) x = 5 (cao)	**A1**

(a) Answer: **x = 5**

(b) correct rearrangement, 5x = 25 oe	**M1**
(b) x = 5 (cao)	**A1**

(b) Answer: **x = 5**

(c) correct rearrangement, 2x = -6 oe	**M1**
(c) x = -3 (cao)	**A1**

(c) Answer: **x = -3**

Question 2

2((x + 3) + x) = 34 oe	**M1**
4x + 6 = 34 oe	**M1**
x = 7 (cao)	**A1**

Answer: **x = 7**

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