FOUNDATION

4.6 Forming and Solving Equations: 10-minute Pack

EDEXCEL 1MA1 · Calculator allowed · about 10 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Solve the equation $3x = 15$. Show your working.

(a) Find x. **(1)**

.....

(Total for Question 1 is 1 mark)

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2 The sum of a number y and 8 is 20. Form an equation and solve for y.

(a) Form an equation from the statement. **(1)**

(b) Solve the equation for y. **(1)**

.....

(Total for Question 2 is 2 marks)

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3 Amelia thinks of a number n. She doubles it and then adds 5 to make 17. Form an equation and find n.

(a) Form an equation to represent the situation. **(1)**

(b) Solve the equation and give n. **(2)**

.....

(Total for Question 3 is 3 marks)

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4 Solve the equation $4x + 3 = 19$. Show steps clearly.

(a) Find x. **(2)**

.....

(Total for Question 4 is 2 marks)

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Mark scheme · 4.6 Forming and Solving Equations: 10-minute Pack

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

Question 1

(a) x = 5 cao **B1**

(a) Answer: 5

Question 2

(a) equation formed, e.g. y + 8 = 20 oe **M1**

(a) Answer: y + 8 = 20

(b) y = 12 cao **A1**

(b) Answer: 12

Question 3

(a) equation formed, e.g. 2n + 5 = 17 oe **M1**

(a) Answer: 2n + 5 = 17

(b) subtract 5 then divide by 2 seen (2n = 12 -> n = 6) ft **M1**

(b) n = 6 cao **A1**

(b) Answer: 6

Question 4

(a) subtract 3 then divide by 4 seen (4x = 16 -> x = 4) ft **M1**

(a) x = 4 cao **A1**

(a) Answer: 4

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