2.11 Equations with Brackets and Unknowns on Both Sides: 10-minute Pack

Calculators not allowed · about 10 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Solve -2(x - 4) = 10

(3)

2 Solve 3(x - 2) = 2(x + 4) + 1

(3)

3 I think of a number, multiply it by 2 and add 8. The answer is 28. Form an equation and solve it to find my number.

(3)

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Mark scheme · 2.11 Equations with Brackets and Unknowns on Both Sides: 10-minute Pack

Question 1

expand the bracket: -2x + 8 = 10	**M1**
rearrange and divide: -2x = 2 so x = -1	**M1**
x = -1 cao	**A1**

Answer: **-1**

Question 2

expand both sides: 3x - 6 = 2x + 8 + 1	**M1**
collect like terms to isolate x: x = 15	**M1**
x = 15 cao	**A1**

Answer: **15**

Question 3

2n + 8 = 28 (or equivalent equation)	**M1**
correct method to solve	**M1**
10 cao	**A1**

Answer: **10**

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