2.10 Solving One and Two Step Equations: 10-minute Pack

Calculators not allowed · about 10 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Solve the equation (1/4)k = 10. Give your answer as an integer.

(2)

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2 The sides of a triangle, in centimetres, are (x + 3), 3x and (4x - 6). The perimeter is 45 cm.

(a) Form and simplify an equation in x.

(b) Solve it to find x.

(4)

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3 Solve the equation 8 + x = 11 and check your answer by substitution.

(2)

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Question 1

multiply both sides by 4 to clear denominator: k = 40	**M1**
k = 40 cao	**A1**

Answer: **40**

Question 2

adds the three sides	**M1**
8x - 3 = 45	**A1**
correct method to solve	**M1**
x = 6 cao	**A1**

Answer: **(a) 8x - 3 = 45, (b) x = 6**

Question 3

isolation of the variable, e.g. x = 11 - 8	**M1**
x = 3 cao	**A1**

Answer: **3**

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