# 2.9 Solving One Step Equations: 10-minute Pack

EDEXCEL 1MA1 · Calculator allowed · about 10 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

**Answer ALL questions. Show all your working.**

**1** 5x = 20

Circle the letter next to the correct solution to the equation.

- ☐ A) x = 4
- ☐ B) x = 15
- ☐ C) x = 25
- ☐ D) x = 100

**(Total for Question 1 is 1 mark)**

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**2** Tom buys a coffee and pays with a £10 note. He receives £3.55 change.

Form an equation for the cost of the coffee, c, and solve it to find c.

**(Total for Question 2 is 2 marks)**

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**3** Show that x = 4 is the solution to the equation

3x = 12

**(Total for Question 3 is 2 marks)**


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**4** The perimeter of an equilateral triangle is 60 cm. Each side has length 2x cm. Work out the value of x.

**(Total for Question 4 is 2 marks)**

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**5** Solve 0.25m = 1.5. Show your method.

**(Total for Question 5 is 2 marks)**


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# Mark scheme · 2.9 Solving One Step Equations: 10-minute Pack

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

## Question 1

| | |
|---|---|
| A circled, cao | **B1** |

**Answer: A) x = 4**

## Question 2

| | |
|---|---|
| correct equation formed, c + 3.55 = 10 oe | **M1** |
| c = 6.45 (or £6.45) cao | **A1** |

**Answer: c = £6.45**

## Question 3

| | |
|---|---|
| x = 4 substituted into 3x, 3 x 4 = 12 seen | **M1** |
| 12 = 12 stated, so x = 4 is a correct solution, cso | **A1** |

**Answer: 3 x 4 = 12, which equals the right-hand side, so x = 4 is correct.**

## Question 4

| | |
|---|---|
| 3 x 2x = 60 or 2x = 20 | **M1** |
| x = 10 cao | **A1** |

**Answer: x = 10**

## Question 5

| | |
|---|---|
| multiply or divide: m = 1.5 / 0.25 or show 0.25m/0.25 = 1.5/0.25 | **M1** |
| m = 6 cao | **A1** |

**Answer: 6**


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