

Solving One- and Two-Step Equations

For AQA GCSE Mathematics (8300) • Foundation tier

Name _____

Total marks: **29**

Answer **all** questions in the spaces provided. Show your working: marks are given for correct method.

1 (a) Solve $w + 9 = 23$

[1 mark]

$w =$ _____

(b) Solve $4x = 36$

[1 mark]

$x =$ _____

(c) Solve $15 - y = 6$

[1 mark]

$y =$ _____

2 Which equation has the solution $x = \frac{3}{4}$?
Circle your answer.

[1 mark]

$3x = 4$

$4x = 3$

$x + 3 = 4$

$x - 4 = 3$

- 3** Which equation has a negative solution?
Tick one box.

[1 mark]

☐ $x + 3 = 8$

☐ $x - 3 = 8$

☐ $x + 8 = 3$

☐ $8x = 3$

- 4** (a) Solve $9 - e = 0$

[1 mark]

$e =$ _____

- (b) Solve $4f = 0$

[1 mark]

$f =$ _____

- 5** (a) Solve $\frac{x}{4} = 6$

[1 mark]

$x =$ _____

- (b) Solve $\frac{w}{3} = -5$

[1 mark]

$w =$ _____

6 Solve $4x - 7 = 21$

[2 marks]

$x =$ _____

7 Solve $5x + 4 = 39$

[2 marks]

$x =$ _____

8 Solve $4x - 3 = 7$

[2 marks]

$x =$ _____

9 Solve $\frac{x}{5} + 2 = 6$

[2 marks]

$x =$ _____

10 Solve $20 - 3x = 8$

[2 marks]

$x =$ _____

11 Mo solves $2x + 5 = 17$

$$2x = 22$$

$$x = 11$$

Is he correct? Tick a box.

Give a reason for your answer.

[1 mark]

☐ Yes

☐ No

12 Ella thinks of a number.
She multiplies it by 4 and then subtracts 7
Her answer is 25

Work out the number Ella is thinking of.

[3 marks]

Answer _____

13 Solve $\frac{x+6}{3} = 5$

[2 marks]

$x =$ _____

14 Solve $7 = 2y - 9$

[2 marks]

$y =$ _____

15 Solve $6y + 11 = 2$

[2 marks]

$y =$ _____