

Solving simultaneous equations with elimination

Grade 5 | Foundation and Higher | 14 questions, 52 marks

GCSE Maths topic practice



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Name: _____ **Date:** _____ **Score:** _____ / 52

1 Solve the simultaneous equations

$$x + y = 11$$

$$x - y = 3$$

(3 marks)

Answer _____

2 Solve the simultaneous equations

$$3x + y = 17$$

$$x + y = 7$$

(3 marks)

Answer _____

3 Solve the simultaneous equations

$$2x + 3y = 12$$

$$2x + y = 8$$

(3 marks)

Answer _____

4 Solve the simultaneous equations

$$4x - y = 14$$

$$2x + y = 10$$

(3 marks)

Answer _____

5 Solve the simultaneous equations

$$3x + 2y = 19$$

$$x + 4y = 13$$

(3 marks)

Answer _____

6 Solve the simultaneous equations

$$x + 2y = 4$$

$$3x + 5y = 9$$

(3 marks)

Answer _____

7 Solve the simultaneous equations

$$5x + 2y = 4$$

$$3x - 4y = 18$$

(4 marks)

Answer _____

8 Solve the simultaneous equations

$$3x + 2y = 24$$

$$2x + 5y = 27$$

(4 marks)

Answer _____

9 Solve the simultaneous equations

$$4x + 3y = 5$$

$$6x - 2y = 14$$

(4 marks)

Answer _____

10 Solve the simultaneous equations

$$3x - 2y = 13$$

$$5x - 3y = 21$$

(4 marks)

Answer _____

11 Solve the simultaneous equations

$$2x + 3y = 4$$

$$4x + 5y = 7$$

(4 marks)

Answer _____

12 Solve the simultaneous equations

$$6x + 5y = 10$$

$$4x - 3y = 13$$

(4 marks)

Answer _____

13 A theatre sells adult tickets and child tickets.

2 adult tickets and 3 child tickets cost £36.50

3 adult tickets and 2 child tickets cost £38.50

Work out the cost of one adult ticket and the cost of one child ticket.

(5 marks)

Answer _____

14 A cafe sells teas and coffees.

3 teas and 2 coffees cost £7.80

2 teas and 3 coffees cost £8.20

Work out the cost of one tea and the cost of one coffee.

(5 marks)

Answer _____

End of questions | Total 52 marks