

1. Solve the simultaneous equations.

$$5x + 3y = 22$$

$$2x + 4y = 20$$

Do not use trial and improvement.

(3 marks)

2. Solve the simultaneous equations

$$4x - 4y = 8$$

$$5x - 3y = 18$$

Do not use trial and improvement.

(3 marks)



3. Solve the simultaneous equations

$$5x - 6y = 28$$

$$4x - 4y = 24$$

Do not use trial and improvement.

(3 marks)

4. Solve the simultaneous equations

$$6a + 2b = -2$$

$$4a - 3b = 29$$

Do not use trial and improvement.

(3 marks)



5. Solve the simultaneous equations

$$10x - 6y = 66$$

$$3x - 9y = 63$$

Do not use trial and improvement.

(3 marks)

6. Solve the simultaneous equations

$$4c + 2d = -14$$

$$3c - 12d = 30$$

Do not use trial and improvement.

(3 marks)



7. Solve the simultaneous equations

$$10x - 15y = 25$$

 $x - 2y = 1$

Do not use trial and improvement.

(3 marks)

8. Solve the simultaneous equations

$$2x - 8 = 2y$$
$$x + 3y = 12$$

Do not use trial and improvement.



9. Solve the simultaneous equations

$$x + 3y = 2$$
$$2x = 4y + 24$$

Do not use trial and improvement.

(4 marks)

10. The cost of buying 2 cups of tea and 3 biscuits is £8. The cost of buying 7 cups of tea and 2 biscuits is £12. Work out the cost of 1 cup of tea and 1 biscuit.



11. The cost of buying 3 adult tickets and 8 child tickets at the theatre is £97.

The cost of buying 2 adult tickets and 4 child tickets at the theatre is £58.

Work out the total cost of 2 adult tickets and 1 child ticket.

(4 marks)

12. The cost of buying 4 plates and 2 cups is £34. The cost of buying 3 plates and 1 cup is £21. Work out the total cost of 4 plates and 4 cups.



13. Sarah wants to buy some fruit.
She buys 5 bananas and 3 apples for £2.25.
She buys 3 bananas and 7 apples for £3.17.
Work out the cost of a banana and an apple.

(4 marks)

14. Phillip wants to buy some stationary for school. He buys 8 pens and 5 pencils for £3.41. She buys 9 pens and 2 pencils for £3.22. Work out the cost of a pen and a pencil.