

## SIMULTANEOUS EQUATIONS – PRACTICE QUESTIONS



1.

Solve the simultaneous equations:

$$2x + 5y = 9$$

$$2x + 3y = 7$$

2.

Solve the simultaneous equations:

$$3x + 4y = 23$$

$$2x - 4y = 2$$

3.

Solve the simultaneous equations:

$$7x + 2y = 33$$

$$4x + 2y = 24$$

4.

Solve the simultaneous equations:

$$10x + y = 29$$

$$7x + y = 20$$

5.

Solve the simultaneous equations:

$$3x + 2y = 17$$

$$5x - 2y = 7$$

6.

Solve the simultaneous equations:

$$4x + 5y = 13$$

$$4x - 3y = 5$$

7.

Solve the simultaneous equations:

$$3x + 5y = 19$$

$$7x - 5y = 11$$

8.

Solve the simultaneous equations:

$$5x + 2y = 17$$

$$4x + y = 10$$

9.

Solve the simultaneous equations:

$$6x + 5y = 13$$

$$2x + 3y = 3$$

10.

Solve the simultaneous equations:

$$3x + 2y = 23$$

$$4x - y = 16$$

11.

Solve the simultaneous equations:

$$4x + 3y = 10$$

$$3x + 2y = 7$$

12.

Solve the simultaneous equations:

$$3x + 5y = 14$$

$$2x + 3y = 9$$

13.

Solve the simultaneous equations:

$$3x + 4y = 11$$

$$7x - 3y = 1$$

14.

Solve the simultaneous equations:

$$7x + 3y = 27$$

$$3x - 2y = 5$$

15.

Solve the simultaneous equations:

$$5x + 6y = 13$$

$$3x + 4y = 8$$

16.

Solve the simultaneous equations:

$$2x + 5y = 21$$

$$3x - 7y = 17$$

17.

Solve the simultaneous equations:

$$9x - 5y = 30$$

$$2x + 5y = 25$$

18.

Solve the simultaneous equations:

$$5x + 8y = 19$$

$$3x + 4y = 9$$

19.

Solve the simultaneous equations:

$$8x - 3y = 12$$

$$3x + 2y = 17$$

20.

Solve the simultaneous equations:

$$10x + 4y = 32$$

$$3x + 4y = 4$$

21.

Solve the simultaneous equations:

$$5x - 3y = 24$$

$$3x + 2y = 3$$

22.

Solve the simultaneous equations:

$$6x + 7y = 11$$

$$4x + 3y = 9$$

23.

Solve the simultaneous equations:

$$10x + 9y = 23$$

$$5x - 3y = 34$$

24.

A café sells baguettes and sandwiches.

The first customer buys 3 baguettes and 4 sandwiches for £27.

The second customer buys 2 baguettes and 3 sandwiches for £19.

Find the cost of each item.

25.

A grocer sells apples and bananas.

The cost of 3 apples and 4 bananas is £1.90.

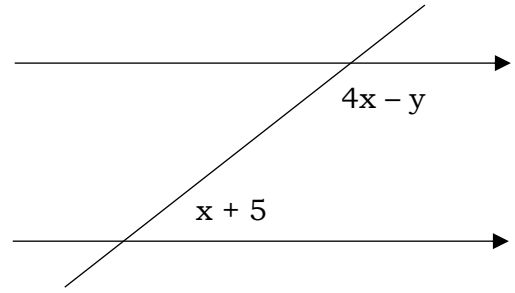
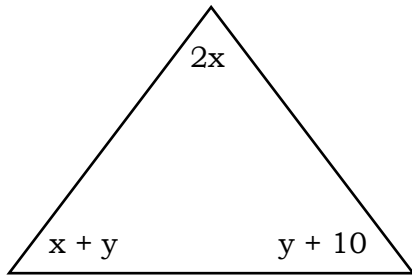
The cost of 7 apples and 3 bananas is £2.85.

Find the cost of each item.



26.

Find  $x$  and  $y$ .



27.

50 tickets were sold for a concert.

Adult tickets cost £5 and child tickets cost £2.

The total money taken from the sale of the tickets was £160.

Find the number of child tickets sold and the number of adult tickets sold.

28.

A football team played 35 games last season.

The team receives 3 points for a win, 1 point for a draw and no points for a loss.

The team lost 9 games and ended the season with 58 points.

Find how many wins and draws the team had last season.