



Simultaneous Equations



SCAN ME

REVISE THIS TOPIC

CHECK YOUR ANSWERS

SCAN ME

1 Solve the simultaneous equations



$$4x + 3y = 18$$

$$4x + y = 14$$

$x =$

$y =$

(Total for Question 1 is 3 marks)



2 Solve the simultaneous equations



$$2x + 7y = 30$$

$$2x + 2y = 10$$

$x =$

$y =$

(Total for Question 2 is 3 marks)

3 Solve the simultaneous equations



$$9x + 3y = 57$$

$$2x + 3y = 36$$

$x =$

$y =$

(Total for Question 3 is 3 marks)



4 Solve the simultaneous equations



$$20x + y = 90$$

$$9x + y = 46$$

$x =$

$y =$

(Total for Question 4 is 3 marks)

5 Solve the simultaneous equations



$$4x + 5y = 61$$

$$4x + 2y = 34$$

$x =$

$y =$

(Total for Question 5 is 3 marks)



6 Solve the simultaneous equations



$$3x + 3y = 27$$
$$2x - 3y = 8$$

$x =$

$y =$

(Total for Question 6 is 3 marks)

7 Solve the simultaneous equations



$$6x - 2y = 22$$
$$4x + 2y = 18$$

$x =$

$y =$

(Total for Question 7 is 3 marks)



8 Solve the simultaneous equations



$$\begin{aligned}9x + 7y &= 59 \\ 3x - 7y &= 1\end{aligned}$$

$x =$

$y =$

(Total for Question 8 is 3 marks)

9 Solve the simultaneous equations



$$\begin{aligned}8x + 5y &= 39 \\ 8x - 2y &= 18\end{aligned}$$

$x =$

$y =$

(Total for Question 9 is 3 marks)



10 Solve the simultaneous equations



$$\begin{aligned} 3x - 4y &= 29 \\ x - 4y &= 7 \end{aligned}$$

$x =$

$y =$

(Total for Question 10 is 3 marks)

11 Solve the simultaneous equations



$$\begin{aligned} 2x + 8y &= 50 \\ 2x - 3y &= 17 \end{aligned}$$

$x =$

$y =$

(Total for Question 11 is 3 marks)



12 Solve the simultaneous equations



$$\begin{aligned} 3x + 7y &= 43 \\ x + 2y &= 13 \end{aligned}$$

$x =$

$y =$

(Total for Question 12 is 3 marks)

13 Solve the simultaneous equations



$$\begin{aligned} 9x + 4y &= 57 \\ 4x + 2y &= 26 \end{aligned}$$

$x =$

$y =$

(Total for Question 13 is 3 marks)



14 Solve the simultaneous equations



$$\begin{aligned} 13x + 5y &= 51 \\ 2x + y &= 9 \end{aligned}$$

$x =$

$y =$

(Total for Question 14 is 3 marks)

15 Solve the simultaneous equations



$$\begin{aligned} 8x + 3y &= 73 \\ 4x - 5y &= 17 \end{aligned}$$

$x =$

$y =$

(Total for Question 15 is 3 marks)



16 Solve the simultaneous equations



$$3x + 6y = 48$$
$$4x - 3y = 9$$

$x =$

$y =$

(Total for Question 16 is 3 marks)

17 Solve the simultaneous equations



$$4x + 3y = 33$$
$$3x + 2y = 24$$

$x =$

$y =$

(Total for Question 17 is 3 marks)



18 Solve the simultaneous equations



$$5x + 3y = 38$$
$$2x - 5y = 9$$

$x =$

$y =$

(Total for Question 18 is 3 marks)

19 Solve the simultaneous equations



$$8x - 5y = 49$$
$$3x - 2y = 18$$

$x =$

$y =$

(Total for Question 19 is 3 marks)



20 Solve the simultaneous equations



$$\begin{aligned}8x + 5y &= 29 \\ 2x + 5y &= 26\end{aligned}$$

$x =$

$y =$

(Total for Question 20 is 3 marks)

21 Solve the simultaneous equations



$$\begin{aligned}6x + 3y &= 33 \\ 6x - 5y &= 57\end{aligned}$$

$x =$

$y =$

(Total for Question 21 is 3 marks)





22 Solve the simultaneous equations

$$\begin{aligned} 5x + 8y &= -1 \\ 3x - 8y &= 25 \end{aligned}$$

$x =$

$y =$

(Total for Question 22 is 3 marks)

23 Solve the simultaneous equations

$$\begin{aligned} 3x + 6y &= 12 \\ 3x + 4y &= 7 \end{aligned}$$

$x =$

$y =$

(Total for Question 23 is 3 marks)



24 Solve the simultaneous equations

$$6x + 3y = 21$$

$$4x + 5y = 2$$

$x =$

$y =$

(Total for Question 24 is 3 marks)

25 Solve the simultaneous equations

$$3x + 5y = 10$$

$$5x - 7y = 9$$

$x =$

$y =$

(Total for Question 25 is 3 marks)



26 Solve the simultaneous equations

$$10x + 3y = 22$$

$$4x + 5y = 43$$

$x =$

$y =$

(Total for Question 26 is 3 marks)

27 Solve the simultaneous equations

$$5x + 2y = 4$$

$$4x + y = 3$$

$x =$

$y =$

(Total for Question 27 is 3 marks)



28 Solve the simultaneous equations

$$\begin{aligned}2x - 3y &= 9 \\6x + y &= 2\end{aligned}$$

$x =$

$y =$

(Total for Question 28 is 3 marks)

29 Solve the simultaneous equations

$$\begin{aligned}3x + 2y &= 3 \\4x + 6y &= 5\end{aligned}$$

$x =$

$y =$

(Total for Question 29 is 3 marks)



30 Solve the simultaneous equations

$$\begin{aligned} 3x - 3y &= 27 \\ 4x + y &= 3.5 \end{aligned}$$

$x =$

$y =$

(Total for Question 30 is 3 marks)

31 Solve the simultaneous equations

$$\begin{aligned} 5x - 2y &= 1.1 \\ 4x - 3y &= 2 \end{aligned}$$

$x =$

$y =$

(Total for Question 31 is 3 marks)



32 A shop sells pencils and rulers.

The cost of 5 pencils and 2 rulers is £0.99

The cost of 1 pencil and 10 rulers is £1.35

Work out the cost of 1 pencil and the cost of 1 ruler.

Cost of 1 pencil =p

Cost of 1 ruler =p

(Total for Question 32 is 3 marks)

33 A machine makes hats and gloves but only makes one item at a time.

The time taken to make a hat is 2 minutes longer than the time taken to make a glove.

The machine makes 4 hats and 6 gloves in 13 minutes.

Work out how long the machine would take to make 1 hat and 1 glove.

..... minutes

(Total for Question 33 is 4 marks)



34 A cinema has adult tickets and child tickets.
The price of each ticket type is fixed.

Tom buys 3 adult tickets and 4 child tickets costing a total of £35.50
Lily buys 2 adult tickets and 3 child tickets costing a total of £25.00

Carolyn buys 1 adult tickets and 2 child tickets.
Work out how much Carolyn paid for the tickets.

£.....
(Total for Question 34 is 4 marks)

