Exam Papers Practice

GCSE OCR Math J560

Linear Simultaneous Equations

Question Paper

"We will help you to achieve A Star "

Question 1

Solve the simultaneous equations

$$2x - y = 13$$
$$x - 2y = 11$$

[3 marks]

Question 2

Showing clear algebraic working, solve the simultaneous equations

$$3a + 2b = 1$$
$$a + 2b = 5$$

[3 marks]

Question 3

Solve the simultaneous equations

$$5y - 4x = 8$$
$$y + x = 7$$

Show clear algebraic working.

[3 marks]

Question 4

Solve the simultaneous equations

$$4x + y = 25$$

$$x - 3y = 16$$

[3 marks]

Question 5

Solve the simultaneous equations

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

[3 marks]

Question 6

Solve the simultaneous equations

$$3x + 2y = 4$$
$$4x + 5y = 17$$

[4 marks]

Question 7

Solve the simultaneous equations

$$3x + 4y = 5$$
$$2x - 3y = 9$$

[4 marks]

Question 8

Solve the simultaneous equations

$$2x - 4y = 19$$
$$3x + 5y = 1$$

[4 marks]

Question 9

Solve the simultaneous equations

$5x + 2y = 11$
$4x - 3y = 18$

[4 marks]

Question 10

Solve the simultaneous equations

$4x + 7y = 1$
$3x + 10y = 15$

[4 marks]

Question 11

Solve

$$2x + 3y = \frac{2}{3}$$

$$3x - 4y = 18$$

[4 marks]

Question 12

Solve the simultaneous equations.
You must show all your working.

$$y = \frac{x}{2}$$
$$2x - y = 1$$

[3 marks]

Question 13

Find the co-ordinates of the point of intersection of the straight lines

$$2x + 3y = 11,$$
$$3x - 5y = -12.$$

[3 marks]

Question 14

A cinema sells adult tickets and child tickets.

The total cost of 3 adult tickets and 1 child ticket is £30
The total cost of 1 adult ticket and 3 child tickets is £22

Work out the cost of an adult ticket and the cost of a child ticket.

[4 marks]

Question 15

3 teas and 2 coffees have a total cost of £7.80

5 teas and 4 coffees have a total cost of £14.20

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

[4 marks]