



# EXAM PAPERS PRACTICE

GCSE Edexcel Math  
1MA1  
Linear Simultaneous  
Equations

Question Paper

*"We will help you to  
achieve A Star "*



**Question 1**

Solve the simultaneous equations

$$4x + y = 25$$

$$x - 3y = 16$$

[3 marks]

**Question 2**

Solve the simultaneous equations

$$3x + y = -4$$

$$3x - 4y = 6$$

[3 marks]



**Question 3**

Solve the simultaneous equations

$$y - 2x = 6$$

$$y + 2x = 0$$

Show clear algebraic working.

[3 marks]

**Question 4**

Solve  $x + 2y = 3$

$$x - y = 6$$

Show clear algebraic working.

[3 marks]



**Question 5**

Solve the simultaneous equations

$$2x - y = 13$$

$$x - 2y = 11$$

[3 marks]

**Question 6**

Solve the simultaneous equations

$$5x + 2y = 11$$

$$4x - 3y = 18$$

[4 marks]



**Question 7**

Solve the simultaneous equations

$$\begin{aligned}4x + 7y &= 1 \\3x + 10y &= 15\end{aligned}$$

[4 marks]

**Question 8**

3 kg of potatoes and 4 kg of carrots have a total cost of 440p.  
4 kg of potatoes and 3 kg of carrots have a total cost of 470p.

Work out the total cost of 1 kg of potatoes and 1 kg of carrots.

[4 marks]



**Question 9**

- (a) Solve the simultaneous equations  $3x + 5y = 14$   
 $4x + 3y = 4$

Show clear algebraic working.

[4 marks]

**Question 10**

Solve the simultaneous equations

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

[4 marks]

**Question 11**

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 12**

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]

**Question 13**

Robbie pays \$10.80 when he buys 3 notebooks and 4 pencils.

Paniz pays \$14.50 when she buys 5 notebooks and 2 pencils.

Write down simultaneous equations and use them to find the cost of a notebook and the cost of a pencil.

[5 marks]



**Question 14**

Solve

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

$$3x - 4y = 18$$

[4 marks]

**Question 15**

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

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

$$2x - y = 1$$

[3 marks]