



# EXAM PAPERS PRACTICE

## GCSE Edexcel Math 1MA1 Solving Linear Equations

### Question Paper

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



**Question 1**

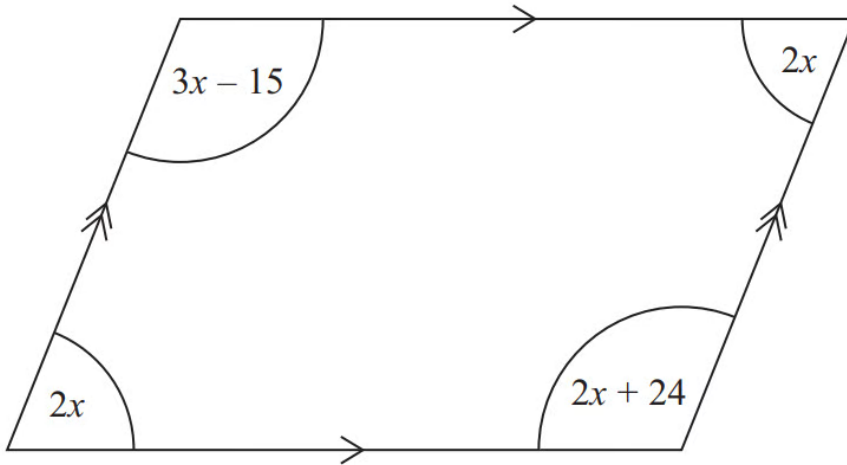


Diagram **NOT**  
accurately drawn

The diagram shows a parallelogram.  
The sizes of the angles, in degrees, are

- $2x$
- $3x - 15$
- $2x$
- $2x + 24$

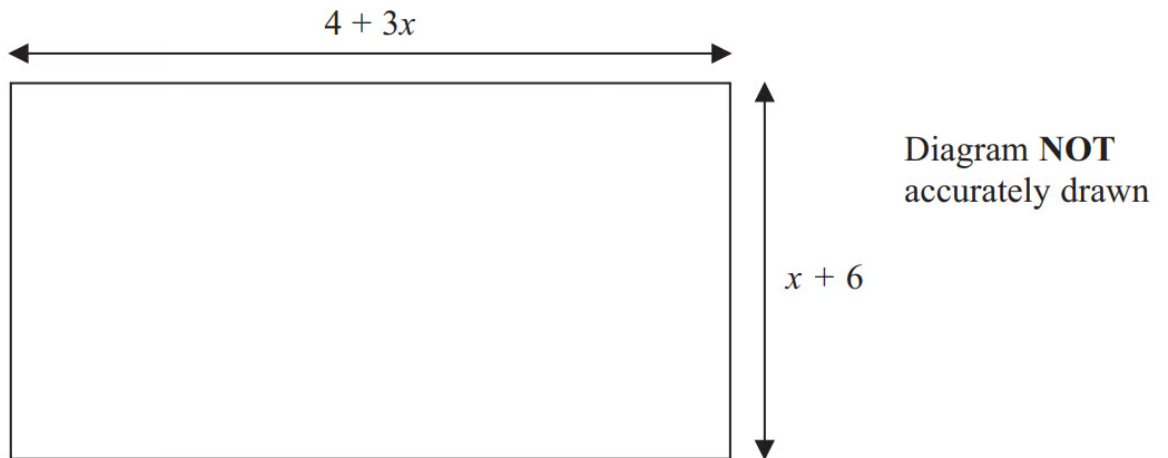
Work out the value of  $x$ .

[3 marks]



**Question 2**

The diagram shows a garden in the shape of a rectangle.



All measurements are in metres.  
The perimeter of the garden is 32 metres.

Work out the value of  $x$

[4 marks]



**Question 3**

(b) Solve  $\frac{2 - y}{5} = 1$

[ marks]

**Question 4**

(b) Solve  $7(x + 2) = 7$

[ marks]

**Question 5**

Simplify  $4y + 2x - 3 + 3x + 8$

[ marks]



**Question 6**

$ABC$  is a triangle.

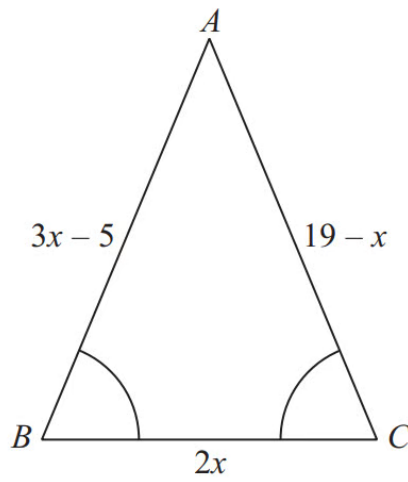


Diagram **NOT**  
accurately drawn

Angle  $ABC =$  angle  $BCA$ .

The length of side  $AB$  is  $(3x - 5)$  cm.

The length of side  $AC$  is  $(19 - x)$  cm.

The length of side  $BC$  is  $2x$  cm.

Work out the perimeter of the triangle.

Give your answer as a number of centimetres.

[ marks]



**Question 7**

(b) Solve  $\frac{h+7}{3} + \frac{2h-1}{2} = \frac{5}{6}$

[4 marks]

**Question 8**

Solve  $\frac{7-3f}{4} = 2$

[3 marks]

**Question 9**

$ABCD$  is a trapezium.

$STUV$  is a rectangle.

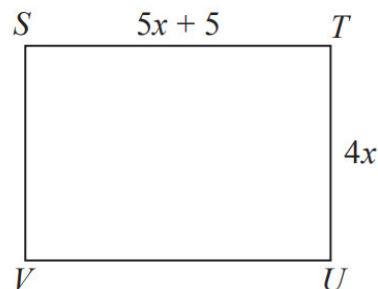
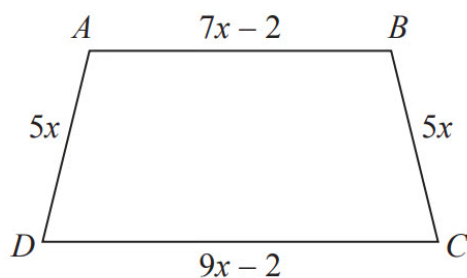


Diagram **NOT** accurately drawn

All measurements are in centimetres.

The two shapes have the same perimeter.

Work out the length of  $ST$ .

[ marks]



**Question 10**

Solve  $\frac{11 - w}{4} = 1 + w$

[3 marks]

**Question 11**

Solve  $\frac{4x - 1}{5} + \frac{x + 4}{2} = 3$

[3 marks]



**Question 12**

The diagram shows the plan of a floor.

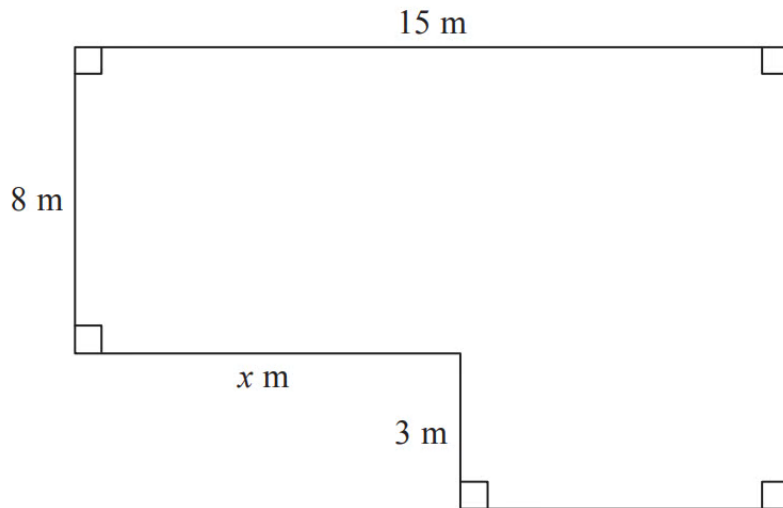


Diagram **NOT**  
accurately drawn

The area of the floor is  $138 \text{ m}^2$ .

Work out the value of  $x$ .

[4 marks]





**Question 13**

Solve  $\frac{15 - x}{5} = 3x + 11$

[3 marks]

**Question 14**

Solve  $\frac{4(8x - 2)}{3x} = 10$

[3 marks]

**Question 15**

Solve  $\frac{x + 1}{3} + \frac{2x + 5}{4} = 2$

[4 marks]