# **Edexcel GCSE** Mathematics (Linear) – 1MA0

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Materials required for examination Ruler graduated in centimetres and millimetres, protractor, compasses, pen, HB pencil, eraser. Tracing paper may be used.

Items included with question papers Nil



#### **Instructions**

Use black ink or ball-point pen.

Fill in the boxes at the top of this page with your name, centre number and candidate number. Answer all questions.

Answer the questions in the spaces provided – there may be more space than you need. Calculators may be used.

### Information

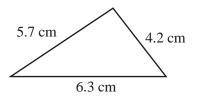
The marks for each question are shown in brackets – use this as a guide as to how much time to spend on each question.

Questions labelled with an asterisk (\*) are ones where the quality of your written communication will be assessed – you should take particular care on these questions with your spelling, punctuation and grammar, as well as the clarity of expression.

#### Advice

Read each question carefully before you start to answer it. Keep an eye on the time. Try to answer every question. Check your answers if you have time at the end.

**1.** Here is a sketch of a triangle.



In the space below, use ruler and compasses to **construct** this triangle accurately. You must show all construction lines.

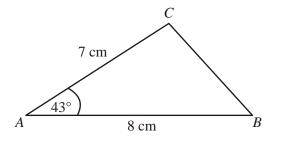


Diagram **NOT** accurately drawn

ABC is a triangle. AB = 8 cm. AC = 1 cm. Angle  $A = 43^{\circ}$ .

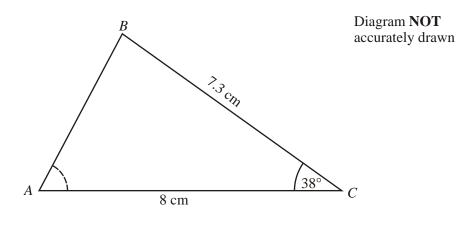
In the space below, make an accurate drawing of triangle ABC.

(3 marks)

2.

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**3.** The diagram shows a sketch of triangle *ABC*.



BC = 7.3 cm. AC = 8 cm. Angle  $C = 38^{\circ}$ .

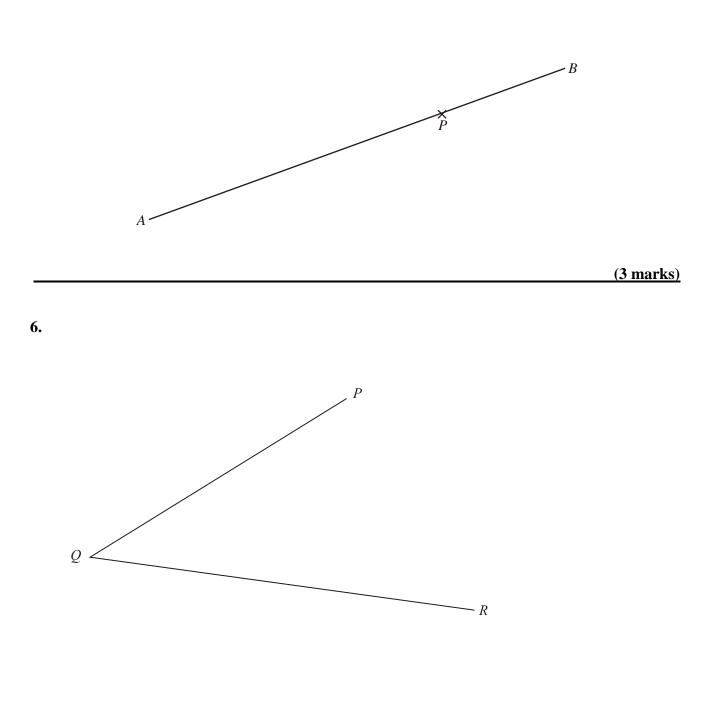
(a) Make an accurate drawing of triangle *ABC*.

(b) Measure the size of angle *A* on your diagram.

······° (1) (4 marks) **4.** In the space below, use ruler and compasses to **construct** an equilateral triangle with sides of length 6 centimetres. You must show all your construction lines.

(3 marks)

5. Use the ruler and compasses to **construct** the perpendicular to the line segment *AB* that passes through the point *P*. You must show all construction lines.



Use ruler and compasses to **construct** the bisector of angle *PQR*. You must show all your construction lines.

(3 marks)

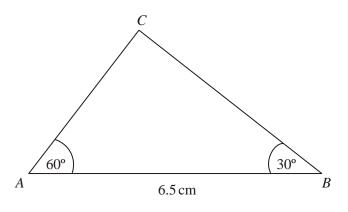


Diagram NOT accurately drawn

(a) Make an accurate drawing of triangle *ABC*.

(3)

(b) Measure the size of the angle at *C* in your triangle.

·.....° (1) (4 marks)

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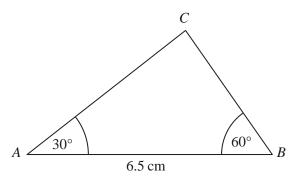
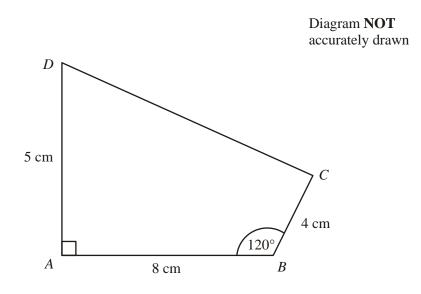


Diagram **NOT** accurately drawn

(a) Make an accurate drawing of this triangle.

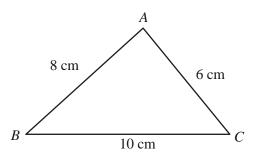
			(2)
(b)	Measure the length of the line <i>AC</i> on your drawing. You must state the units.		
			(2)
The size of the angle in the triangle at $C$ is 90°.			
(c)	Write down the mathematical name for this type of angle.		
			(1) <u>marks)</u>

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Make an accurate drawing of the quadrilateral *ABCD* in the space below.

## Diagram **NOT** accurately drawn



ABC is a triangle. AB = 8 cm. AC = 6 cm. BC = 10 cm.

Use ruler and compasses to construct an accurate drawing of triangle ABC.

You must show all your construction lines.

(3 marks)

**11.** Here is a sketch of a rhombus.

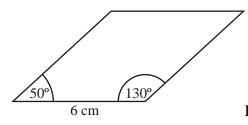


Diagram NOT accurately drawn

The rhombus has a side of length 6 cm. One angle of the rhombus is  $50^{\circ}$ . Another angle of the rhombus is  $130^{\circ}$ .

Use a ruler and a protractor to make an accurate drawing of the rhombus.

(4 marks)