Name: _____

IGCSE

Construction

Instructions

• Use **black** ink or ball-point pen.
• Answer all Questions.
• Answer the Questions in the spaces provided
– *there may be more space than you need.*
• Diagrams are **NOT** accurately drawn, unless otherwise indicated.
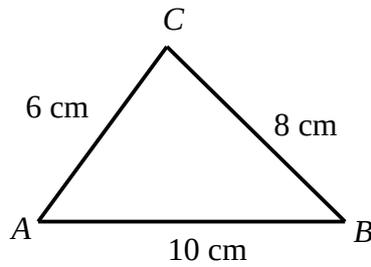• You must **show all your working out.**

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.*

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   *ABC* is a triangle.

C

6 cm   8 cm

AB = 10 cm
BC = 8 cm
AC = 6 cm

A   10 cm   *B*

Use ruler and compasses to construct an accurate drawing of triangle *ABC*.
You must show all your construction lines.

(Total for Question 1 is 3 marks)

2   In the space below, use a ruler and compasses to construct an equilateral triangle with side
length 6 cm.

You must show all your construction lines.

(Total for Question 2 is 3 marks)

3   Use ruler and compasses to construct a perpendicular bisector of the line *AB*.
You must show all your construction lines.

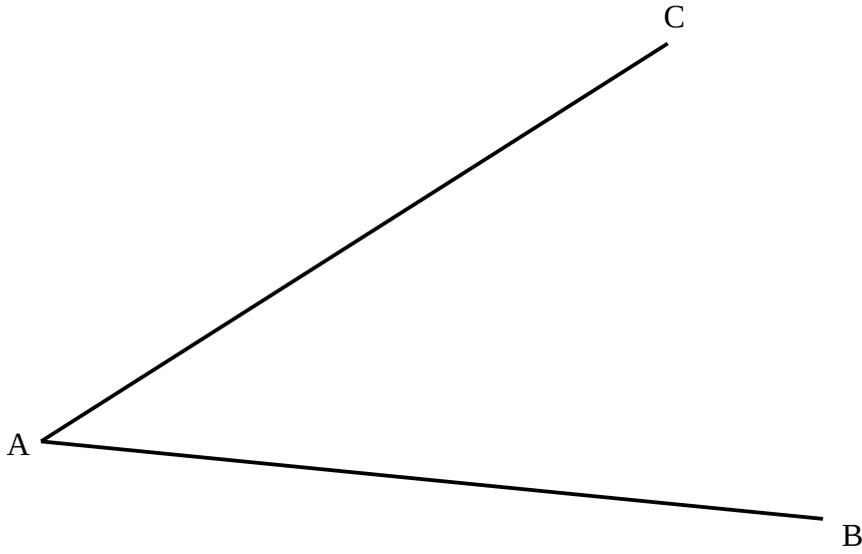*A* ———————————————————————— *B*

(Total for Question 3 is 2 marks)

4   Use ruler and compasses to construct a perpendicular bisector of the line *CD*.
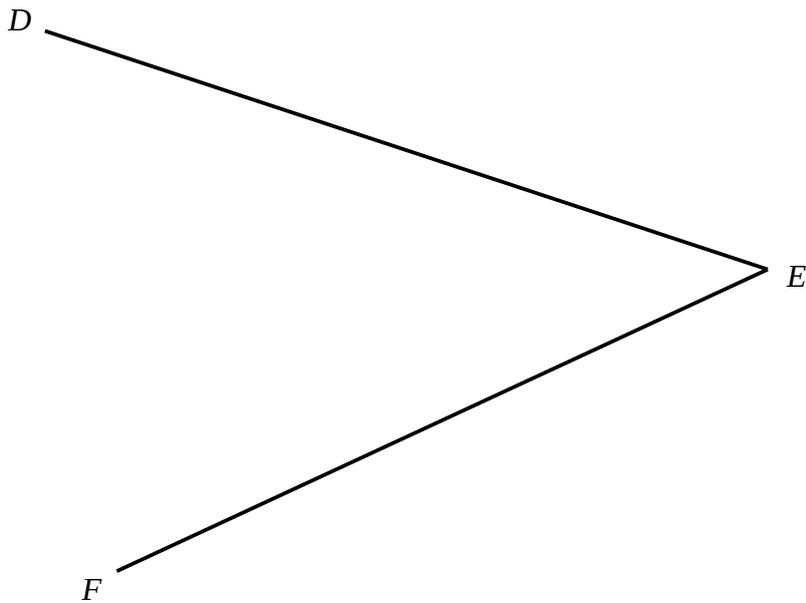You must show all your construction lines.

C

|

D

(Total for Question 4 is 2 marks)

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

C

A

B

(Total for Question 5 is 2 marks)

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

D

E

F

(Total for Question 6 is 2 marks)