



# Constructions



Print this booklet on full size A4.

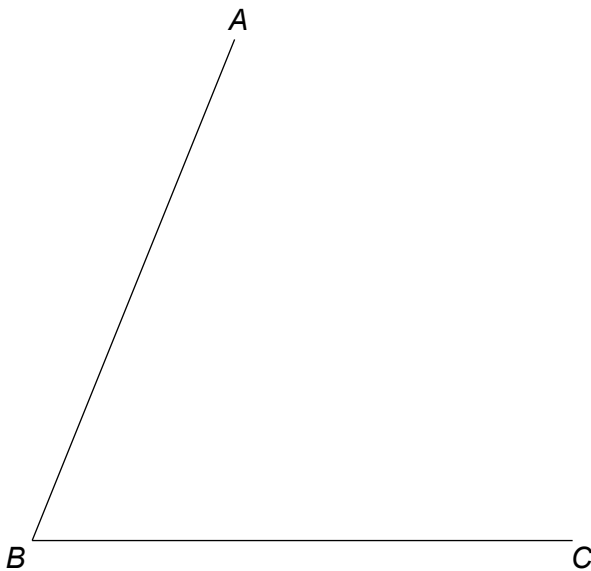
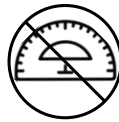
REVISE THIS TOPIC

CHECK YOUR ANSWERS



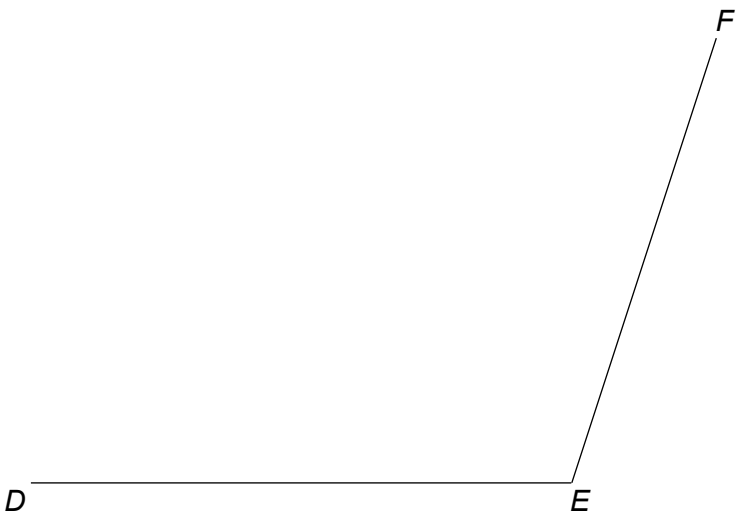
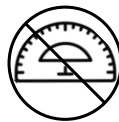
1 Use a ruler and compasses to construct the bisector of angle  $ABC$ .

[2 marks]



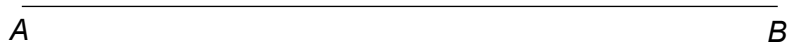
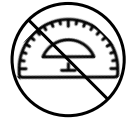
2 Use a ruler and compasses to construct the bisector of angle  $DEF$ .

[2 marks]

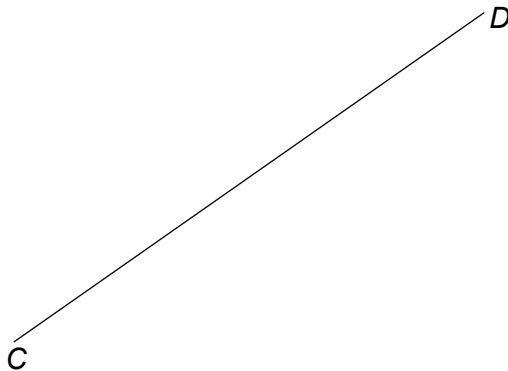
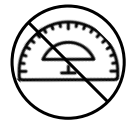




3 Use a ruler and compasses to construct the perpendicular bisector of line  $AB$ . [2 marks]

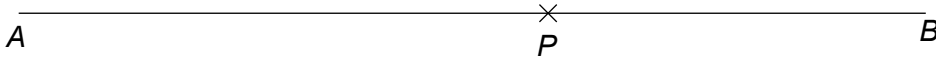
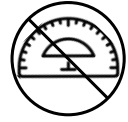


4 Use a ruler and compasses to construct the perpendicular bisector of line  $CD$ . [2 marks]

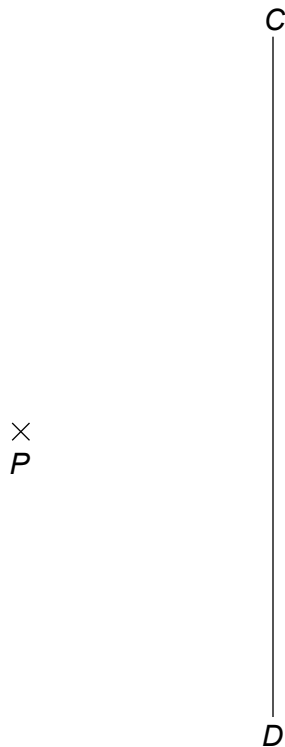
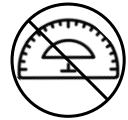




- 5 The point  $P$  lies on the line  $AB$ .  
Use a ruler and compasses to construct an angle of  $90^\circ$  at  $P$ .  
You must show all your construction lines. [2 marks]

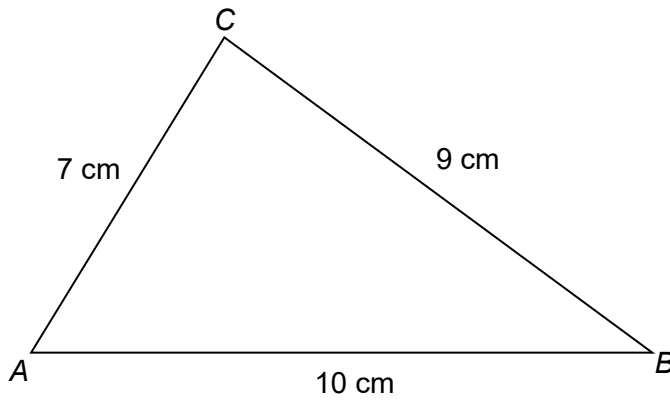
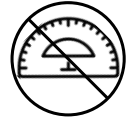


- 6 Use a ruler and compasses to construct the line from the point  $P$  perpendicular to the line  $CD$ . [2 marks]





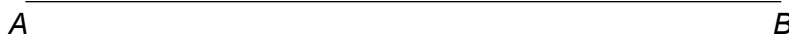
7 A sketch of triangle  $ABC$  is shown.



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

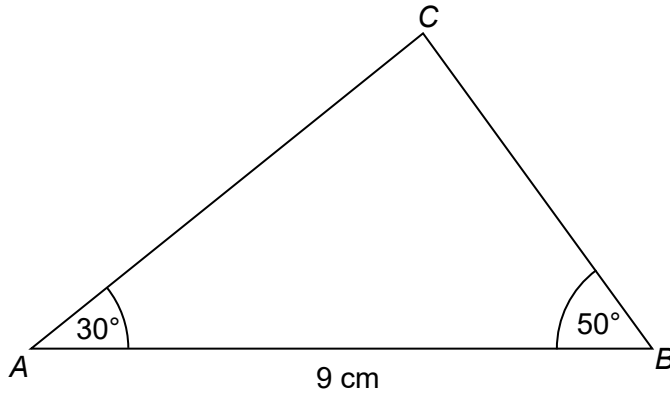
You should use only a ruler and compasses for this question.

[2 marks]





8 A sketch of triangle  $ABC$  is shown.



In the space below, complete an accurate drawing of triangle  $ABC$ . [2 marks]



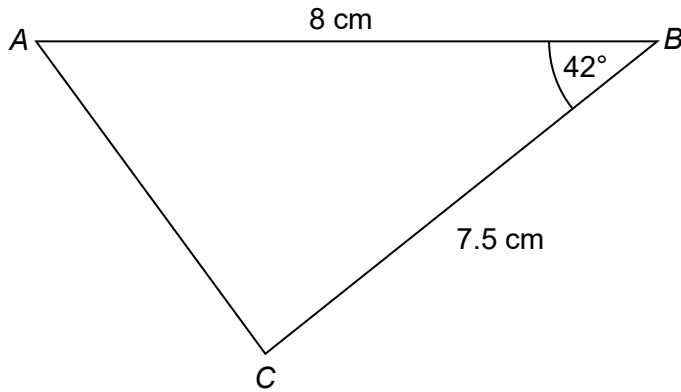
$\frac{\quad}{4}$

Turn over ►





9 A sketch of triangle  $ABC$  is shown.



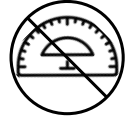
In the space below, complete an accurate drawing of triangle  $ABC$ . [2 marks]





10 Using a ruler and compasses only, construct an equilateral triangle with side length 7 cm.

[2 marks]

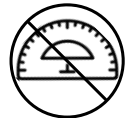


11  $ABC$  is an isosceles triangle.  
 $AB = 6\text{cm}$   
 $AC = BC = 9.5\text{ cm}$

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

You should use only a ruler and compasses for this question.

[2 marks]



6

Turn over ►





12

$ABC$  is a triangle.

$AB = 12$  cm

Angle  $BAC = 77^\circ$

$AC = 8$  cm

In the space below, complete an accurate drawing of triangle  $ABC$ . [2 marks]





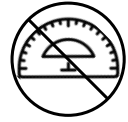
13

$ABC$  is a triangle.

$AB = 8$  cm

Angle  $ABC = 60^\circ$

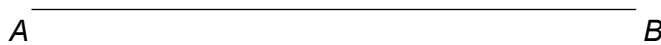
Angle  $CAB = 90^\circ$



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

You should use only a ruler and compasses for this question.

**[4 marks]**



$\frac{\quad}{6}$

Turn over ►



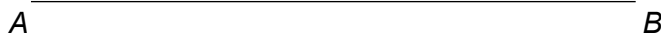
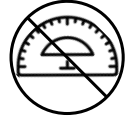


14

Angle  $ABC = 30^\circ$

Use a ruler and compasses to construct angle  $ABC$ .

[4 marks]





15

$ABC$  is an isosceles triangle.

$$AB = 8 \text{ cm}$$

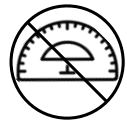
$$AC = BC$$

The area of triangle  $ABC$  is  $40 \text{ cm}^2$

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

You should use only a ruler and compasses for this question.

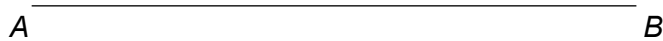
**[4 marks]**



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$\frac{\quad}{8}$

