Name: SOLUTIONS

GCSE (1 - 9)

Loci and Construction

Buy me a coffee

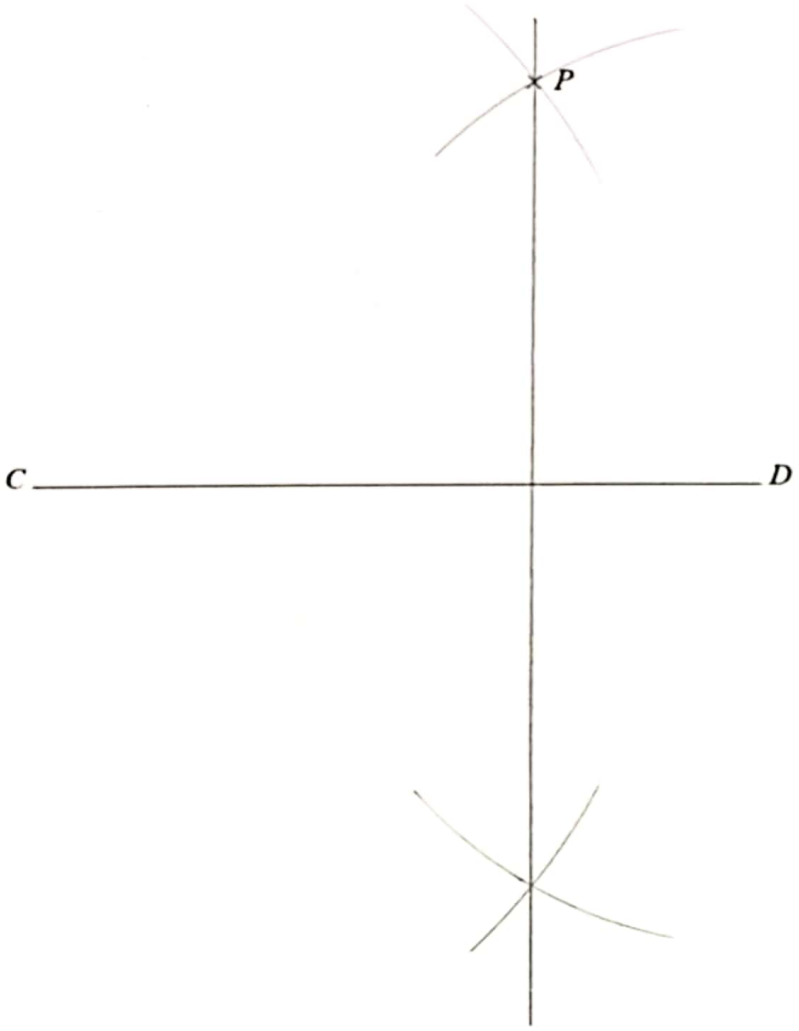
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These questions are compiled from *released* Pearson Edexcel GCSE maths exam papers
They contain exam questions from up until the ***Summer 2023*** exam series
More recent exam papers do exist but are withheld for mock exams
As new exam papers are released these worksheets will gradually be updated
The ***most current*** version of these worksheets will always be available at: kennethstafford.co.uk

Question	Where the question appeared
1	Edexcel, GCSE, Autumn 2019, Paper 1F, Q23
2	Edexcel, GCSE, Autumn 2020, Paper 3F, Q17
3	Edexcel, GCSE, Summer 2017, Paper 2F, Q16
4	Edexcel, GCSE, Summer 2019, Paper 2F, Q19

1

Use a ruler and compasses to construct the line from the point P perpendicular to the line CD.
You must show **all** construction lines.

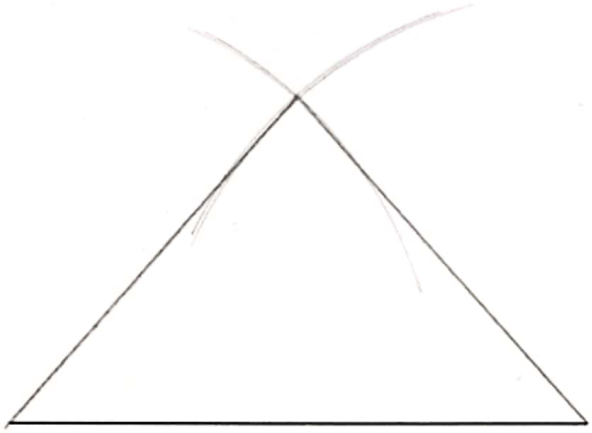


(Total for Question 23 is 2 marks)

[Edexcel, GCSE, Autumn 2019, Paper 1F, Q23]

2

Draw accurately an isosceles triangle with sides of length 8 cm, 6 cm and 6 cm.
One side of the triangle has been drawn for you.



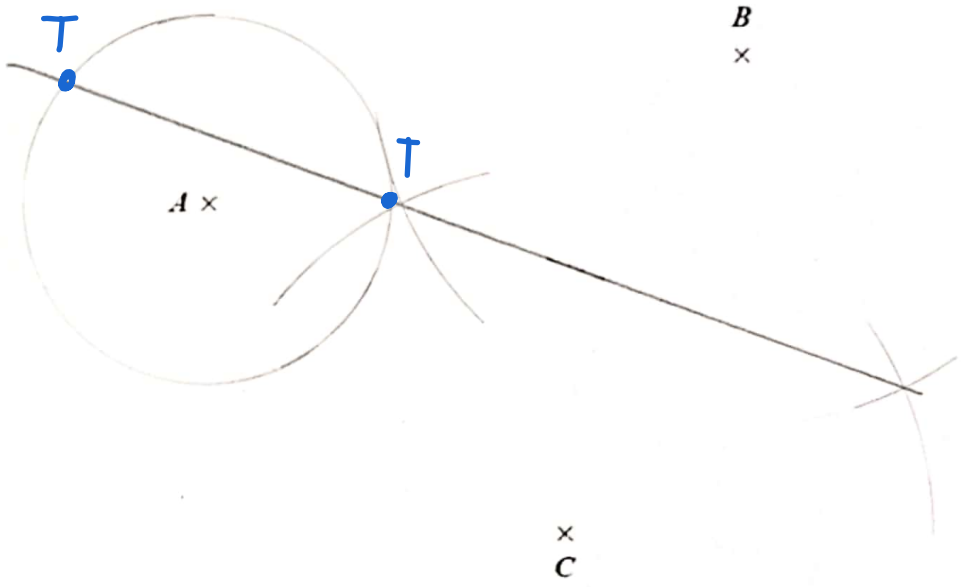
8 cm

(Total for Question 17 is 2 marks)

[Edexcel, GCSE, Autumn 2020, Paper 3F, Q17]

3

A, B and C are three points on a map.



1 cm represents 100 metres.

Point T is 250 metres from point A.
Point T is equidistant from point B and point C.

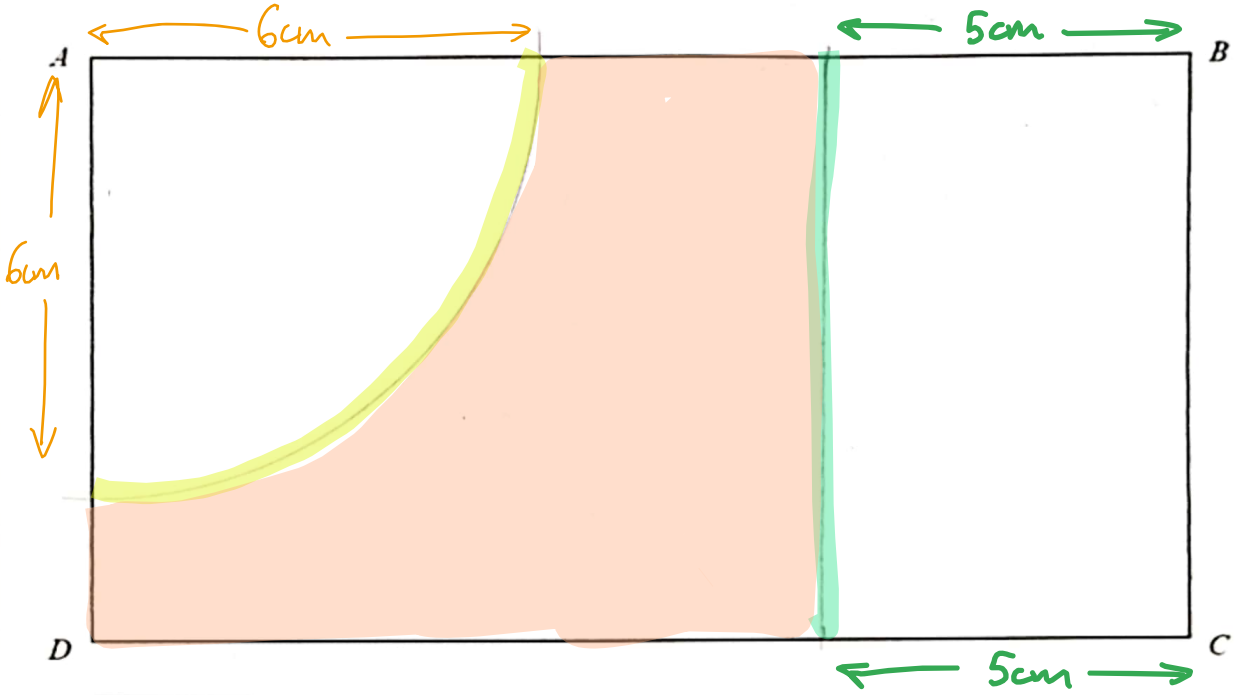
On the map, show one of the possible positions for point T.

(Total for Question 16 is 3 marks)

[Edexcel, GCSE, Summer 2017, Paper 2F, Q16]

4

Here is a plan of a kitchen drawn to a scale of 1 : 30



Sam is going to put a small table in the kitchen.

The table has to be

more than 180 cm from A — $180\text{cm} \div 30 =$ 6cm (on the plan)

more than 150 cm from BC — $150\text{cm} \div 30 =$ 5cm (on the plan)

Show, by shading on the diagram, the region where Sam can put the table.

(Total for Question 19 is 4 marks)

[Edexcel, GCSE, Summer 2019, Paper 2F, Q19]