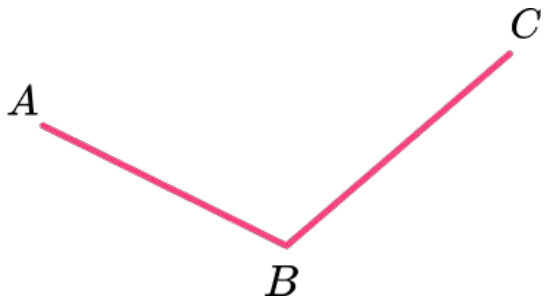
THIRD SPACE LEARNING

GCSE Exam Questions

Loci and Construction | Geometry & Measure

GCSE Exam Questions: Loci and Construction

1) **(a)** Bisect angle ABC.



(2)

(b) Accurately construct a triangle with side lengths $7cm$, $4cm$ and $5.5cm$.

(2)

(4 marks)

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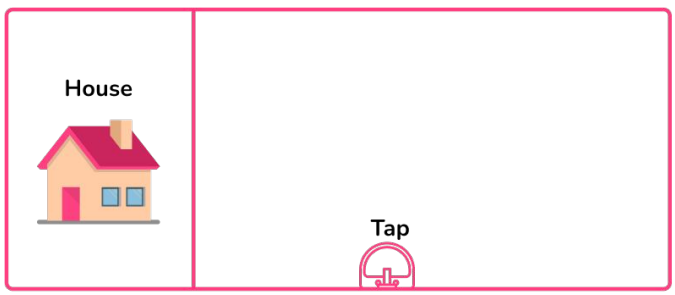
2) Gary is deciding where to place his BBQ.

His BBQ must be more than 2m from a building and within 3m of a tap.
Gary wants his BBQ to be within 1.5m of any edge of his garden.

Using the scale 1cm:1m, shade the area where Gary could place his BBQ.



(4 marks)

GCSE Exam Questions: Loci and Construction

3) **(a)** Measure the bearing of B from A.

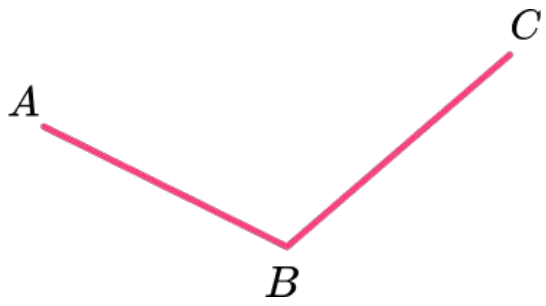
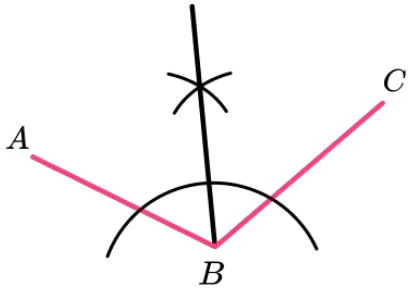
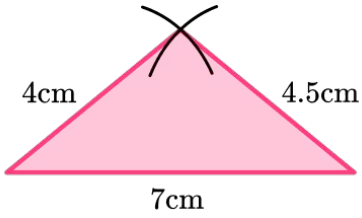
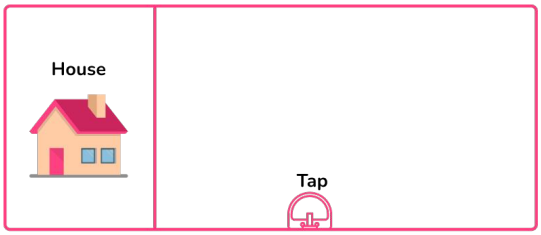
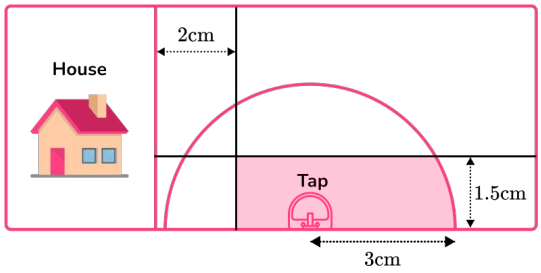
(1)

(b) A plane is on a bearing of 100° from point P and a bearing of 250° from point Q. Mark the position of the plane.

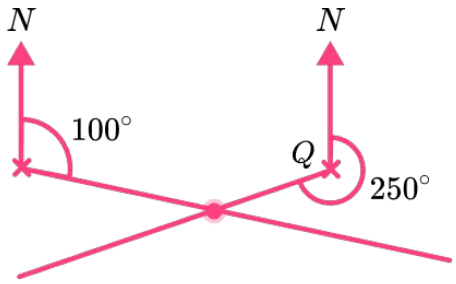
(3)

(4 marks)

GCSE Exam Questions: Loci and Construction Answers

	Question	Answer	Marks
1) (a)	Bisect angle ABC. 	**(a)**  For construction arcs For correct bisector	 **(1)** **(1)**
(b)	Accurately construct a triangle with side lengths 7cm, 4cm and 5.5cm.	**(b)**  For base and construction arcs For correct triangle	 **(1)** **(1)**
2)	Gary is deciding where to place his BBQ. His BBQ must be more than 2m from a building and within 3m of a tap. Gary wants his BBQ to be within 1.5m of any edge of his garden. Using the scale 1cm:1m, shade the area where Gary could place his BBQ. 	 For line 2cm from house For arc radius 3cm from tap For line 1.5cm from base For correct shaded region	 **(1)** **(1)** **(1)** **(1)**

GCSE Exam Questions: Loci and Construction Answers

	Question	Answer	Marks
3) (a)	Measure the bearing of B from A. 	**(a)** 074°	**(1)**
(b)	A plane is on a bearing of 100° from point P and a bearing of 250° from point Q. Mark the position of the plane. 	**(b)**  For line with bearing 100° For line with bearing 250° For correct position of the plane marked	 **(1)** **(1)** **(1)**

Where to go next?

For more diagnostic questions, and GCSE maths revision resources and worksheets to support students in fixing any misconceptions take a look at the free Third Space Learning GCSE maths revision pages.

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