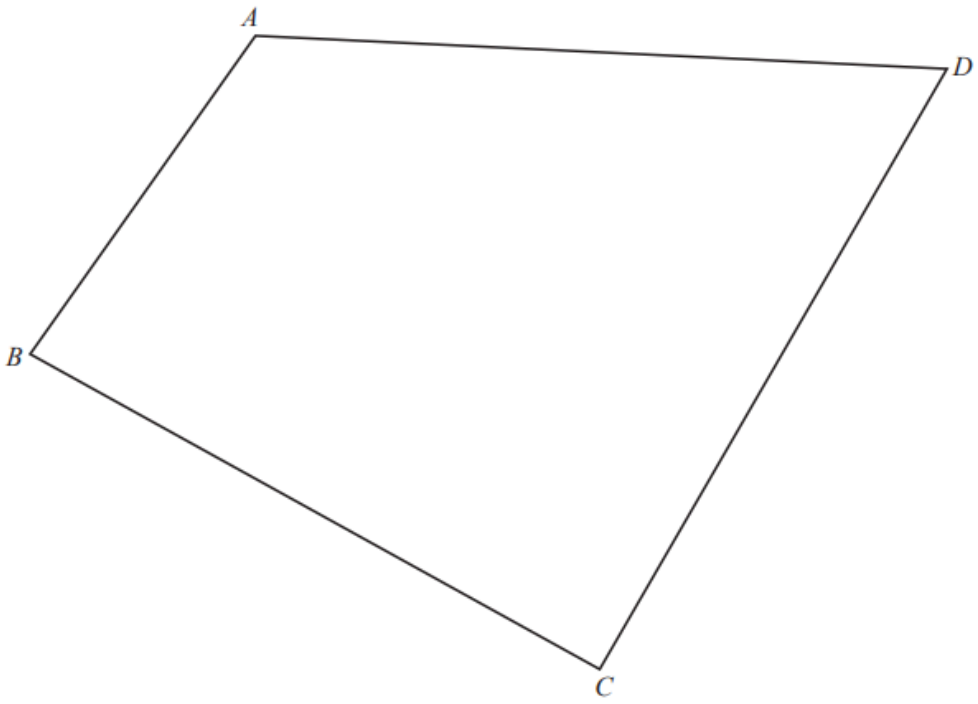
Q1. (June 2018 v3)

24 *ABCD* is a quadrilateral.



(a) **Using a straight edge and compasses only**, construct the perpendicular bisector of *BC*.
Show all your construction arcs. [2]

(b) **Using a straight edge and compasses only**, construct the bisector of angle *BCD*.
Show all your construction arcs. [2]

(c) Shade the region inside *ABCD* that is

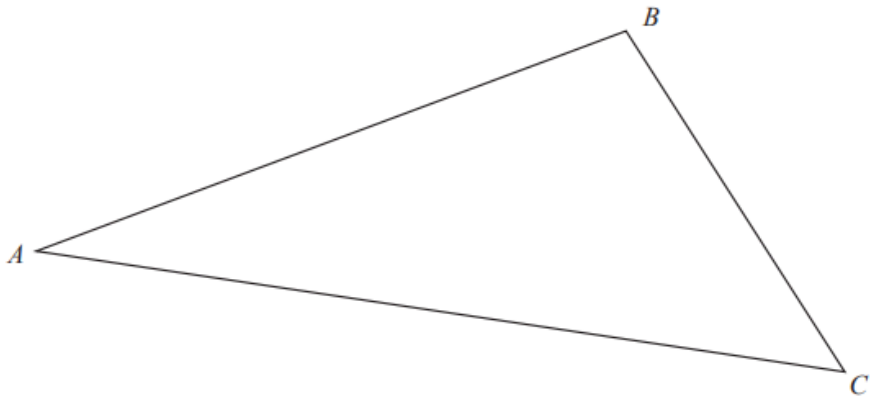
- nearer to *B* than to *C*

and

- nearer to *CD* than to *BC*. [1]

Q2. (June 2019 v2)

24



(a) **(i)** **Using a straight edge and compasses only**, construct the perpendicular bisector of AB.
Show all your construction arcs. [2]

(ii) **Using a ruler and compasses only**, construct the locus of points inside the triangle that are 4 cm from C. [1]

(b) Shade the region inside the triangle that is

- more than 4 cm from C

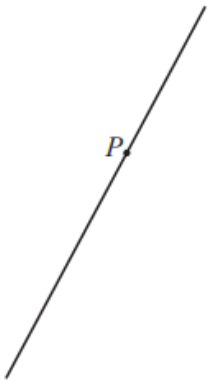
and

- closer to B than to A.

[1]

Q3. (June 2021 v2)

3 P is a point on a line.

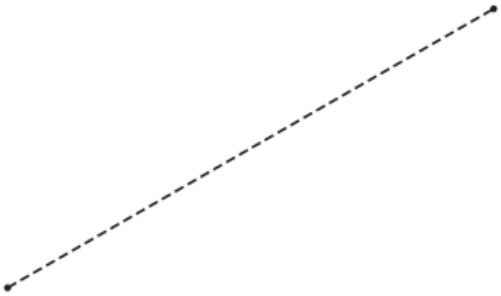


Draw a line through point P that is perpendicular to this line. [1]

Q4. (June 2021 v2)

17 A rhombus has side length 6.5 cm.
The rhombus can be constructed by drawing two triangles.

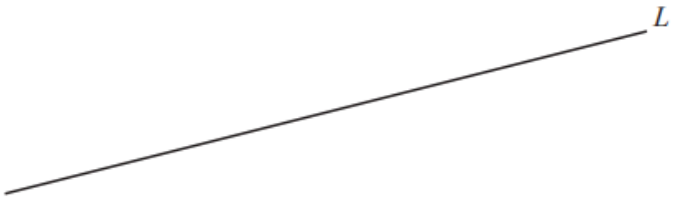
Using a ruler and compasses only, construct the rhombus.
Leave in your construction arcs.
One diagonal of the rhombus has been drawn for you.



[2]

Q5. (June 2022 v1)

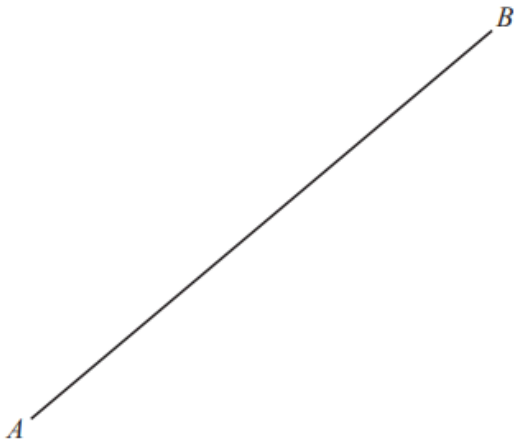
2



Draw a line that is perpendicular to line L. [1]

Q6. (June 2022 v3)

2



(a) Measure the length of the line AB in millimetres.

..... mm [1]

(b) Mark the midpoint, M, of the line AB. [1]

(c) Draw a line through M that is perpendicular to the line AB. [1]

Q7. (June 2023 v2)

2



(a) Draw a line perpendicular to the line AB. [1]

(b) Measure the line AB in centimetres.

.....cm [1]

Q8. (June 2024 v1)

(b) Draw a tangent to the circle at P. [1]

Q9. (June 2024 v2)

(c) Mark the midpoint, M, of line AB. [1]

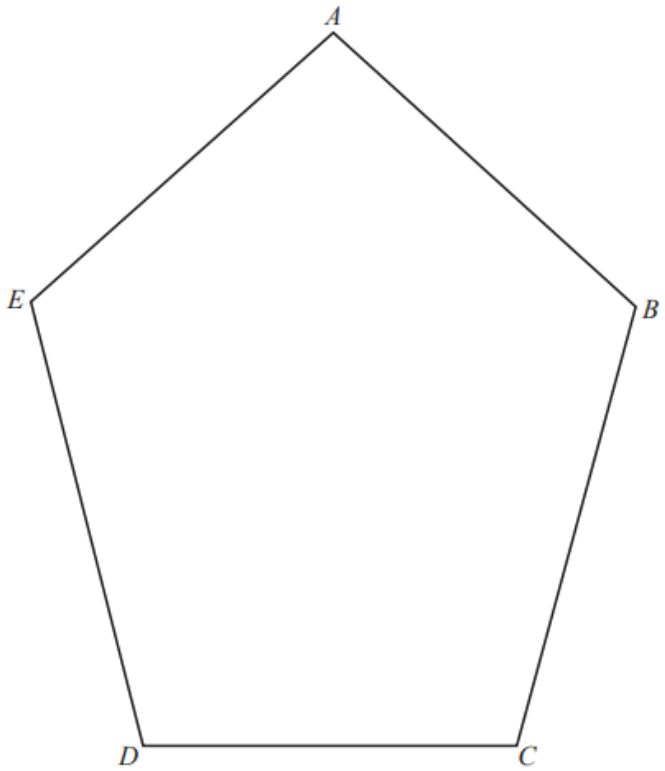
(d) Draw a line through the point M that is perpendicular to line AB. [1]

Q10. (June 2025 v2)

(b) Draw a line through point P that is perpendicular to line AB. [1]

Q11. (Nov 2018 v2)

18 The diagram shows a pentagon $ABCDE$.



(a) **Using a straight edge and compasses only**, construct the bisector of angle BCD. [2]

(b) Draw the locus of the points inside the pentagon that are 3 cm from E. [1]

(c) Shade the region inside the pentagon that is

- less than 3 cm from E

and

- nearer to DC than to BC.

[1]

Q12. (Nov 2019 v1)

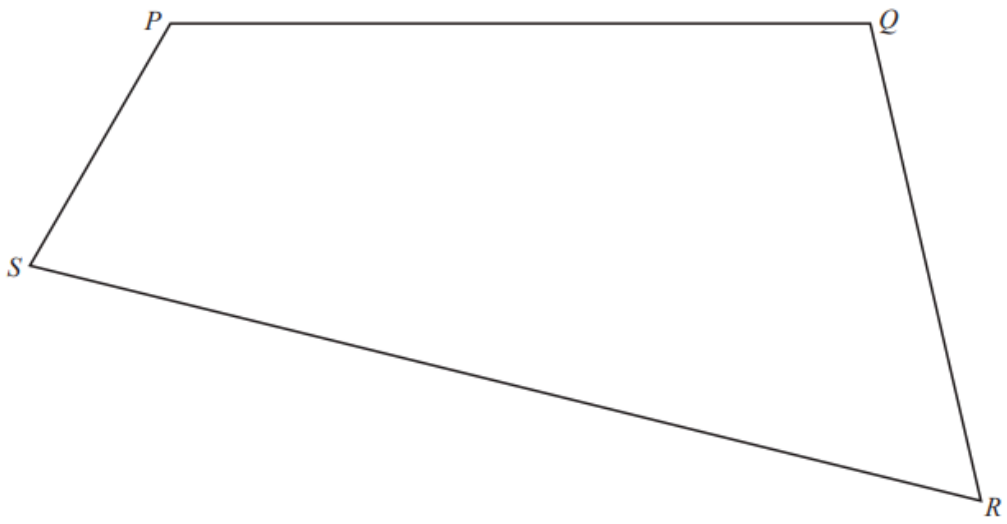
8

The diagram shows the base of a triangle.
The lengths of the other two sides are 6 cm and 4 cm.

Using a ruler and compasses only, construct the other two sides of the triangle.
Show all your construction arcs. [2]

Q13. (Nov 2019 v2)

23 The diagram shows a scale drawing of Lei's garden, $PQRS$.
The scale is 1 centimetre represents 2 metres.



Scale: 1 cm to 2 m

Lei has a bird table in the garden that is

- equidistant from PQ and QR

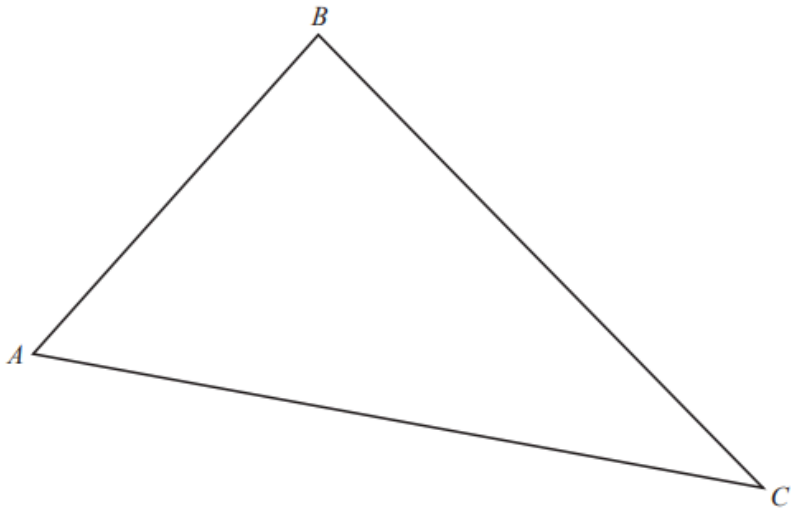
and

- 13 m from R.

On the diagram, construct the position of the bird table.
Use a ruler and compasses only and show all your construction arcs. [4]

Q14. (Nov 2019 v3)

23 The scale drawing shows a triangle ABC.
The scale is 1 centimetre represents 8 kilometres.



Scale : 1 cm to 8 km

(a) **Using a straight edge and compasses only**, construct the bisector of angle BAC.
Show all your construction arcs. [2]

(b) Draw the locus of points inside triangle ABC that are 56 km from C. [2]

(c) Shade the region inside triangle ABC that is

- more than 56 km from C

and

- nearer to AC than to AB.

[1]

Q15. (Nov 2020 v1)

8 A field, ABC, is in the shape of a triangle.
$AC = 500\,\text{m}$ and $BC = 650\,\text{m}$.

Using a ruler and compasses only, complete the scale drawing of the field ABC.
Leave in your construction arcs.
Use a scale of 1 cm to represent 100 m.
The side AB has been drawn for you.



Scale: 1 cm to 100 m

[3]

Q16. (Nov 2020 v3)

6 In triangle ABC, $BC = 7.6\,\text{cm}$ and $AC = 6.2\,\text{cm}$.

Using a ruler and compasses only, construct triangle ABC.
Leave in your construction arcs.
The side AB has been drawn for you.



[2]

Q17. (Nov 2021 v2)

7 In triangle ABC, $AB = 7\,\text{cm}$ and $BC = 5.6\,\text{cm}$.

Using a ruler and compasses only, construct triangle ABC.
Leave in your construction arcs.
The line AC has been drawn for you.



[2]

Q18. (Nov 2022 v1)

4 In triangle PQR, $PR = 5$ cm and $QR = 4$ cm.

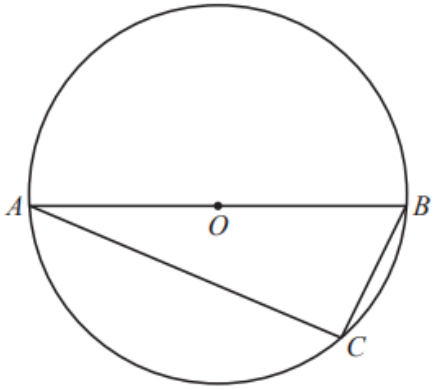
Using a ruler and compasses only, construct triangle PQR.
Leave in your construction arcs.
The side PQ has been drawn for you.



[2]

Q19. (Nov 2023 v2)

17



NOT TO SCALE

A, B and C are points on a circle, centre O.

(a) Draw a tangent to the circle at point A. [1]

Q20. (Nov 2023 v3)

7 In triangle LMN, $LN = 7.5$ cm and $MN = 8$ cm.

(a) **Using a ruler and compasses only**, construct triangle LMN.
Leave in your construction arcs.
The line LM has been drawn for you.



[2]

Q21. (Nov 2024 v2)

6 Triangle ABC has sides $AC = 4.2\,\text{cm}$ and $BC = 5.6\,\text{cm}$.

Using a ruler and compasses only, construct triangle ABC.
Leave in your construction arcs.
The side AB has been drawn for you.



[2]

Q22. (Nov 2025 v1)

5 In triangle ABC, $AB = 8\,\text{cm}$ and $BC = 6.4\,\text{cm}$.

Using a ruler and compasses only, construct triangle ABC.
Leave in your construction arcs.
The line AC has been drawn for you.



[2]

Q23. (Nov 2025 v3)

(b) Draw a line that is parallel to line AB. [1]