

Measuring and Drawing Lines and Angles

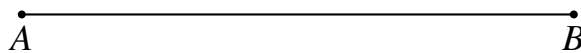
For AQA GCSE Mathematics (8300) • Foundation tier

Name _____

Total marks: **21**

Answer **all** questions in the spaces provided. Show your working: marks are given for correct method. Diagrams in this worksheet are drawn accurately unless they say otherwise. Print at 100% (actual size). You will need a ruler, a protractor and a pair of compasses.

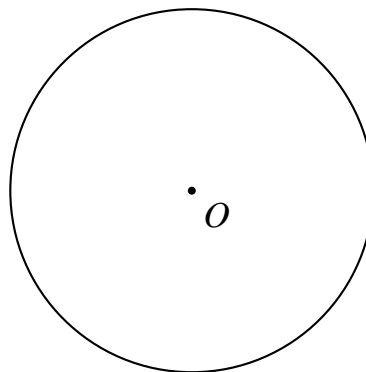
- 1** Measure the length of the line AB .
Give your answer in millimetres.



[1 mark]

Answer _____ mm

- 2** Here is a circle with centre O .

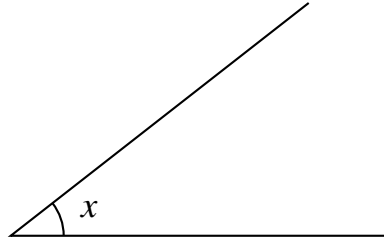


Measure the diameter of the circle.
Give your answer in millimetres.

[1 mark]

Answer _____ mm

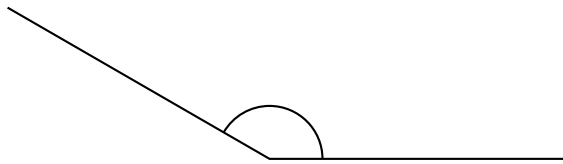
- 3 Use a protractor to measure the size of angle x .



[1 mark]

Answer _____ degrees

- 4 Estimate the size of this angle.
Circle your answer.



[1 mark]

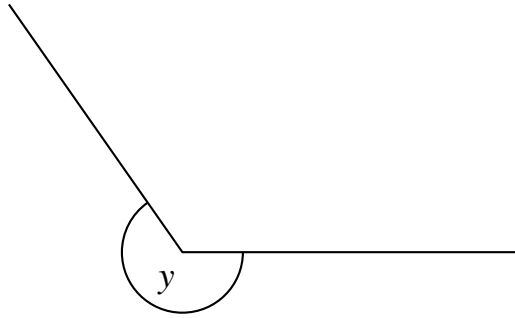
30°

90°

150°

210°

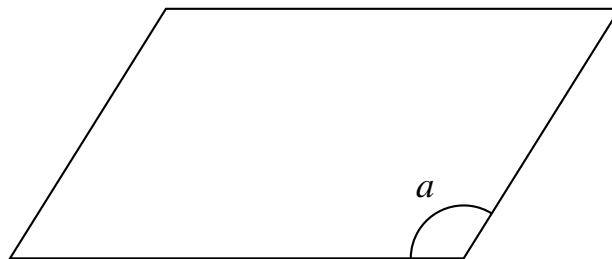
- 5 Measure the size of the reflex angle y .



[1 mark]

Answer _____ degrees

- 6 The diagram shows a parallelogram.

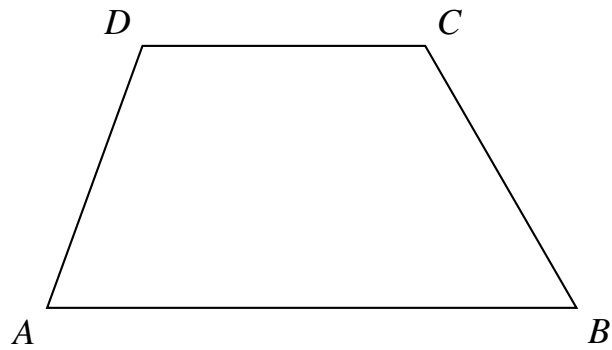


Use a protractor to measure angle a .

[1 mark]

Answer _____ degrees

- 7** Here is a trapezium $ABCD$.



- (a) Measure the length of side BC .
Give your answer in millimetres.

[1 mark]

Answer _____ mm

- (b) Measure angle ADC .

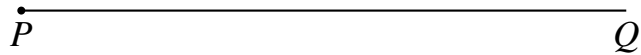
[1 mark]

Answer _____ degrees

- 8** In the space below, draw a straight line of length 6.4 cm.

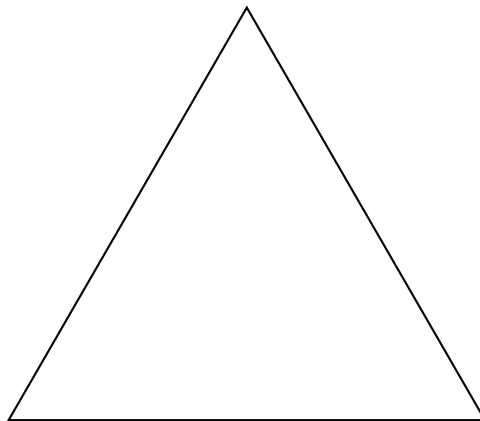
[1 mark]

- 9 Use a protractor to draw an angle of 125° at P .
Use the line PQ as one arm of the angle.



[1 mark]

- 10 Use a ruler for this question.
Here is an accurate drawing of an equilateral triangle.

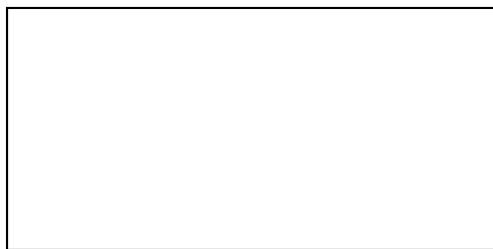


By measuring, work out the perimeter of the triangle.
State the units of your answer.

[3 marks]

Answer _____

- 11** Here is a rectangle.



By measuring, work out the area of the rectangle.
Give your answer in cm^2

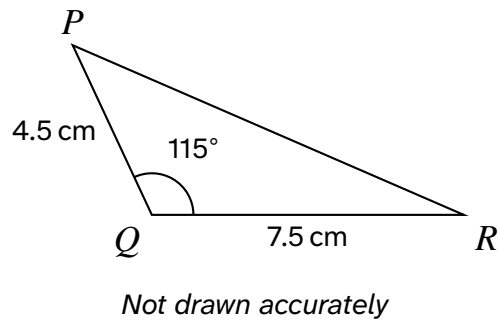
[2 marks]

Answer _____ cm^2

- 12** In the space below, draw triangle ABC accurately.
 $AB = 8 \text{ cm}$, angle $A = 40^\circ$, angle $B = 60^\circ$

[2 marks]

13 Here is a sketch of triangle PQR .

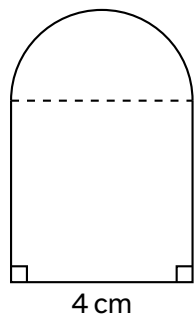


Make an accurate drawing of triangle PQR .
The side QR has been drawn accurately below.



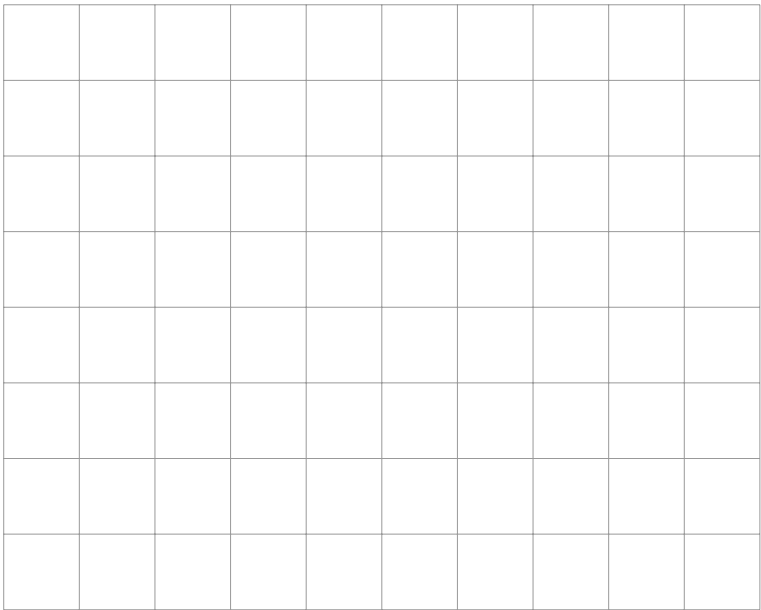
[2 marks]

14 This shape is made from a semicircle and a square.



Not drawn accurately

On the centimetre grid below, make an accurate drawing of the shape.



[2 marks]