

Angle Facts

For AQA GCSE Mathematics (8300) • Foundation tier

Name _____

Total marks: **28**

Answer **all** questions in the spaces provided. Show your working: marks are given for correct method. Diagrams are not drawn accurately.

- 1** An angle is 124°
Circle the type of angle.

[1 mark]

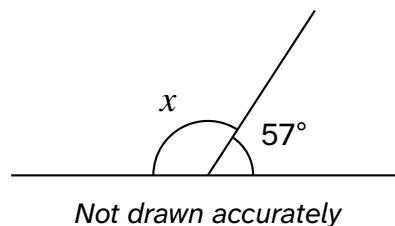
acute

right angle

obtuse

reflex

- 2** The diagram shows a straight line.

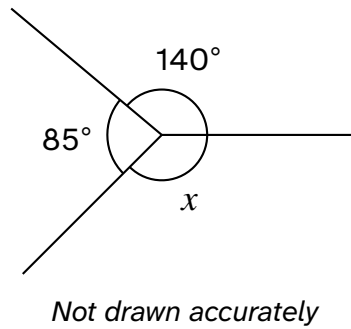


Work out the size of angle x .

[1 mark]

Answer _____ degrees

- 3 Three angles meet at a point.

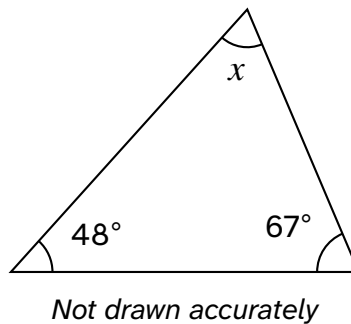


Work out the size of angle x .

[2 marks]

Answer _____ degrees

- 4 Here is a triangle.

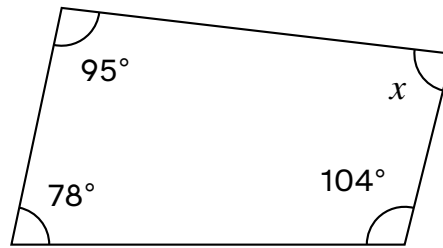


Work out the size of angle x .

[2 marks]

Answer _____ degrees

- 5 Here is a quadrilateral.



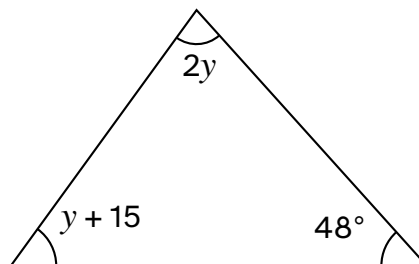
Not drawn accurately

Work out the size of angle x .

[2 marks]

Answer _____ degrees

- 6 Here is a triangle.



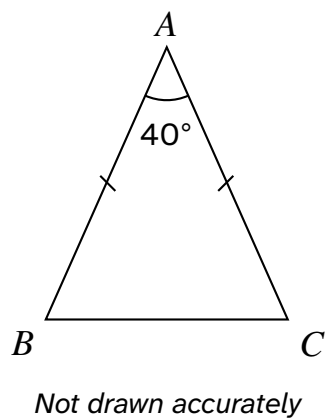
Not drawn accurately

Work out the value of y .

[3 marks]

$y =$ _____

- 7 ABC is an isosceles triangle with $AB = AC$.

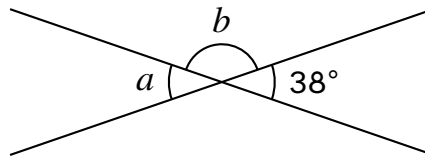


Work out the size of angle ABC .

[2 marks]

Answer _____ degrees

- 8** Two straight lines cross.



Not drawn accurately

- (a) Write down the size of angle a .
Give a reason for your answer.

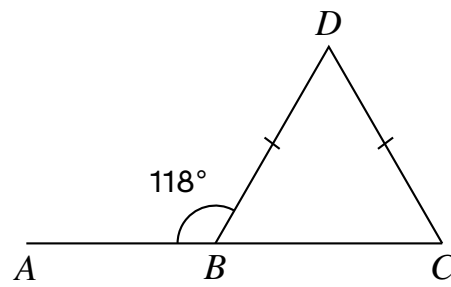
[2 marks]

- (b) Work out the size of angle b .

[1 mark]

Answer _____ degrees

- 9 ABC is a straight line.
 $BD = CD$



Not drawn accurately

Work out the size of angle BDC .

[3 marks]

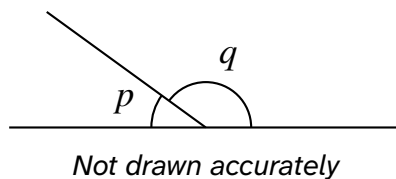
Answer _____ degrees

- 10 The angles in a triangle are x , $2x$ and $3x$.
Work out the size of the largest angle.

[3 marks]

Answer _____ degrees

- 11 p and q are angles on a straight line.



Angle q is 4 times the size of angle p .
Show that angle p is 36°

[2 marks]

- 12 In an isosceles triangle, the ratio of one base angle to the third angle is 3:4
Work out the size of each base angle and the size of the third angle.

[4 marks]

Answer _____ degrees