

## GCSE MATHEMATICS AQA | Edexcel | OCR | WJEC

# **Interior And Exterior Angles**

Please write clearly in block capitals

Forename:

Surname:

#### Materials

For this paper you must have:

mathematical instruments

You can use a calculator.



#### Instructions

- Use black ink or black ball-point pen. Draw diagrams in pencil.
- Fill in the boxes at the top of this page.
- · Answer all questions.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- Do all rough work in this book. Cross through any work you do not want to be marked.

#### Information

- · The marks for questions are shown in brackets.
- You may ask for graph paper, tracing paper and more answer paper. These must be tagged securely to this answer book.

### Advice

· In all calculations, show clearly how you work out your answer.

1	The diagram below shows a regular pentagon.	
	ABC is a straight line	
	$\wedge$	
	A B C	
1(a)	Find x	
	Give a reason for your answer.	
		[2 marks]
		_
		_
		_
	°	
1(b)	Find w	
	Give a reason for your answer	
		[2 marks]
		_
		_
		_
	^ ^	_

	3	
2	The diagram below shows a regular polygon.	
	The exterior angle is 20°	
	$A \qquad B \qquad C$	
	Find the number of sides of the polygon shown above	
	This the humber of sides of the polygon shown above.	[2 marks]
		_
		_
	Answer sides	-
3	The diagram below shows a regular beyagon	
U		
	Find the value of x	
		[2 marks]
		_
		_
		_
	Answer °	
	Turn over for next question	
		Turn over <b>Þ</b>



5	The diagram below shows an irregular heptagon $130^{\circ}$ $130^{\circ}$ $120^{\circ}$ $120^{\circ}$ $120^{\circ}$ $140^{\circ}$	
	Find the value of <i>x</i> You must show all your working.	
		[3 marks]
		_
		_
		_
		_
	Answer °	
	Turn over for next question	

