

# **GCSE Exam Questions**

## Interior and Exterior Angles | Geometry & Measure



(2)

#### **GCSE Exam Questions: Interior and Exterior Angles**

 (a) The exterior angle of a regular polygon is 30°. Work out the number of sides of the polygon.

(b) Calculate the interior angle of the polygon.

(2) (4 marks)

2) The size of each interior angle of a regular polygon is 156°.Work out the number of sides of the polygon.

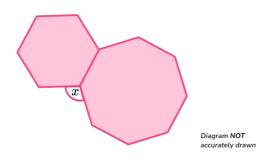
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(3 marks)



#### **GCSE Exam Questions: Interior and Exterior Angles**

3) The diagram shows a regular hexagon and a regular octagon.



Calculate the size of the angle marked *x*.

You must show all your working.

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(4 marks)



#### **GCSE Exam Questions: Interior and Exterior Angles Answers**

	Question	Ans	wer	Mark
1) (a)	The exterior angle of a regular polygon is 30°. Work out the number of sides of the polygon.	(a)	360 ÷ 30 12 sides	(1) (1)
(b)	Calculate the interior angle of the polygon.	(b)	180 - 30 150°	(1) (1)
2)	The size of each interior angle of a regular polygon is 156°. Work out the number of sides of the polygon.		180 -156 (= 24) 360 ÷ 24 (=15) 15 sides	(1) (1) (1)
3)	The diagram shows a regular hexagon and a regular octagon. Diagram NOT accurately drawn Calculate the size of the angle marked x. You must show all your working.		$360 \div 6 (=60)$ $360 \div 8 (=45)$ 60 + 45 $105^{\circ}$	(1) (1) (1) (1)

### Where to go next?

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