

# 3.2 Angles in Polygons & Parallel Lines

## Question Paper

Course	CIE IGCSE Maths
Section	3. Geometry
Topic	3.2 Angles in Polygons & Parallel Lines
Difficulty	Medium

**Time allowed:** 20

**Score:** /11

**Percentage:** /100

### Question 1

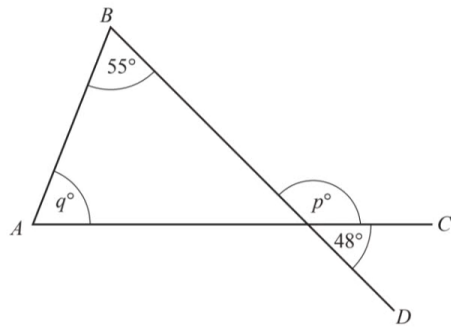
The interior angle of a regular polygon with  $n$  sides is  $150^\circ$ .

Calculate the value of  $n$ .

$n = \dots\dots\dots$  [2]

[2 marks]

### Question 2



NOT TO SCALE

In the diagram,  $AC$  and  $BD$  are straight lines.

Find the value of  $p$  and the value of  $q$ .

$p = \dots\dots\dots$

$q = \dots\dots\dots$  [3]

[3 marks]

### Question 3

The exterior angle of a regular polygon is  $x^\circ$  and the interior angle is  $8x^\circ$ .

Calculate the number of sides of the polygon.

[3]

[3 marks]

### Question 4

A regular polygon has 72 sides.

Find the size of an interior angle.

[3]

[3 marks]