

# E4.3 Circle Problems (Area, Circumference and Arcs)

## Question Paper

Level	IGCSE
Subject	Maths (0580)
Exam Board	Cambridge International Examinations (CIE)
Level	Core
Topic	E4. Mensuration (Perimeters, Areas and Volumes)
Sub-Topic	E4.3 Circle Problems (Area,Circumference&Arcs)
Booklet	Question Paper

**Time Allowed:** 12 minutes

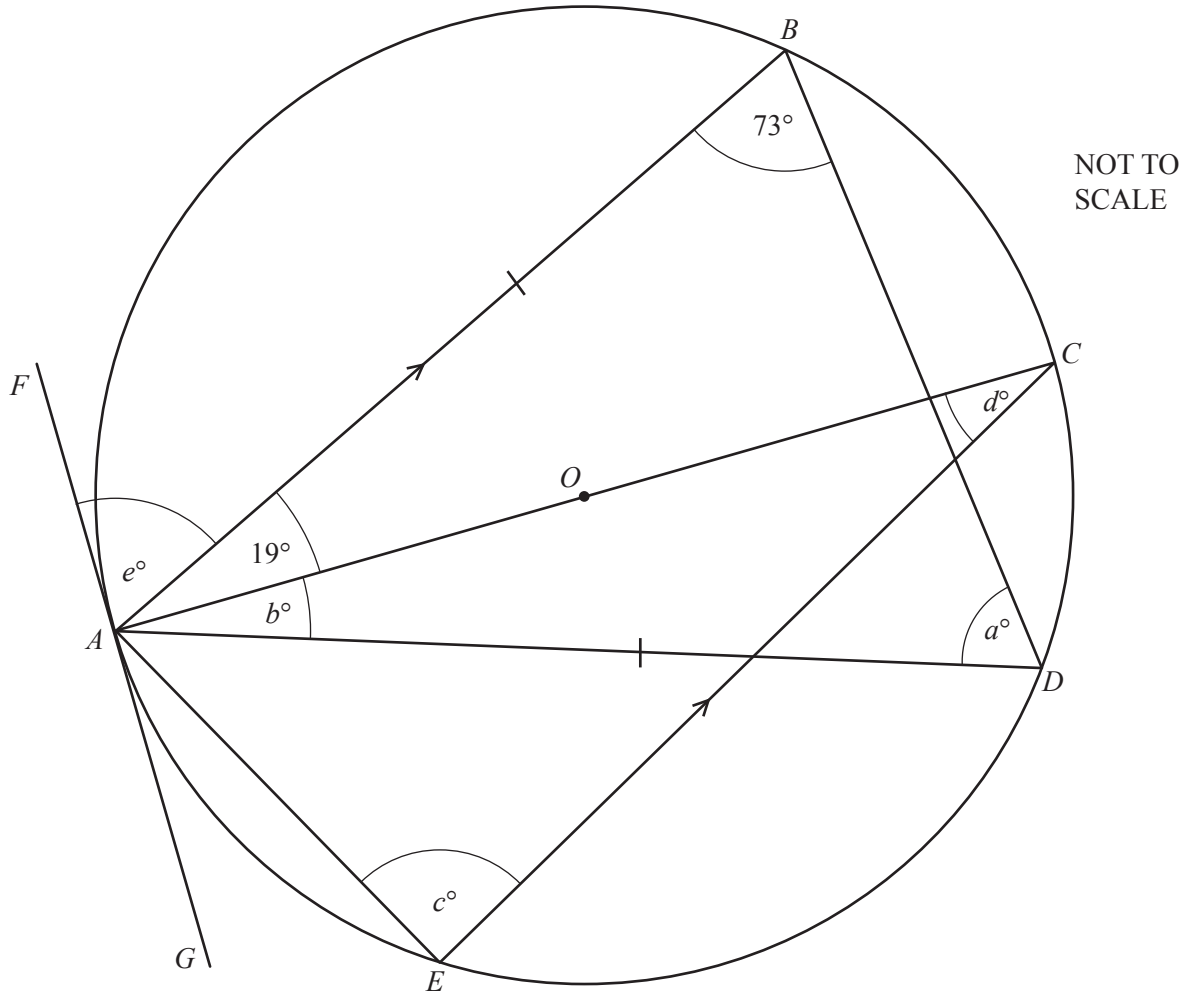
**Score:** /10

**Percentage:** /100

**Grade Boundaries:**

A*	A	B	C	D	E	U
>85%	75%	60%	45%	35%	25%	<25%

1



$A, B, C, D$  and  $E$  are points on the circumference of a circle, centre  $O$ .  
 $GAF$  is a tangent to the circle at  $A$ .  
 $AB$  is parallel to  $EC$  and  $AB = AD$ .

(a) Write down the mathematical name of triangle  $ABD$ .

..... [1]

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(b) Find the value of

(i)  $a$ ,

$$a = \dots\dots\dots [1]$$

(ii)  $b$ ,

$$b = \dots\dots\dots [1]$$

(iii)  $c$ ,

$$c = \dots\dots\dots [1]$$

(iv)  $d$ ,

$$d = \dots\dots\dots [1]$$

(v)  $e$ .

$$e = \dots\dots\dots [2]$$

(c) The diameter,  $AC$ , of the circle is 13 cm.

Calculate the circumference of the circle.

Give your answer correct to 1 decimal place.

$$\dots\dots\dots \text{ cm } [3]$$