

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

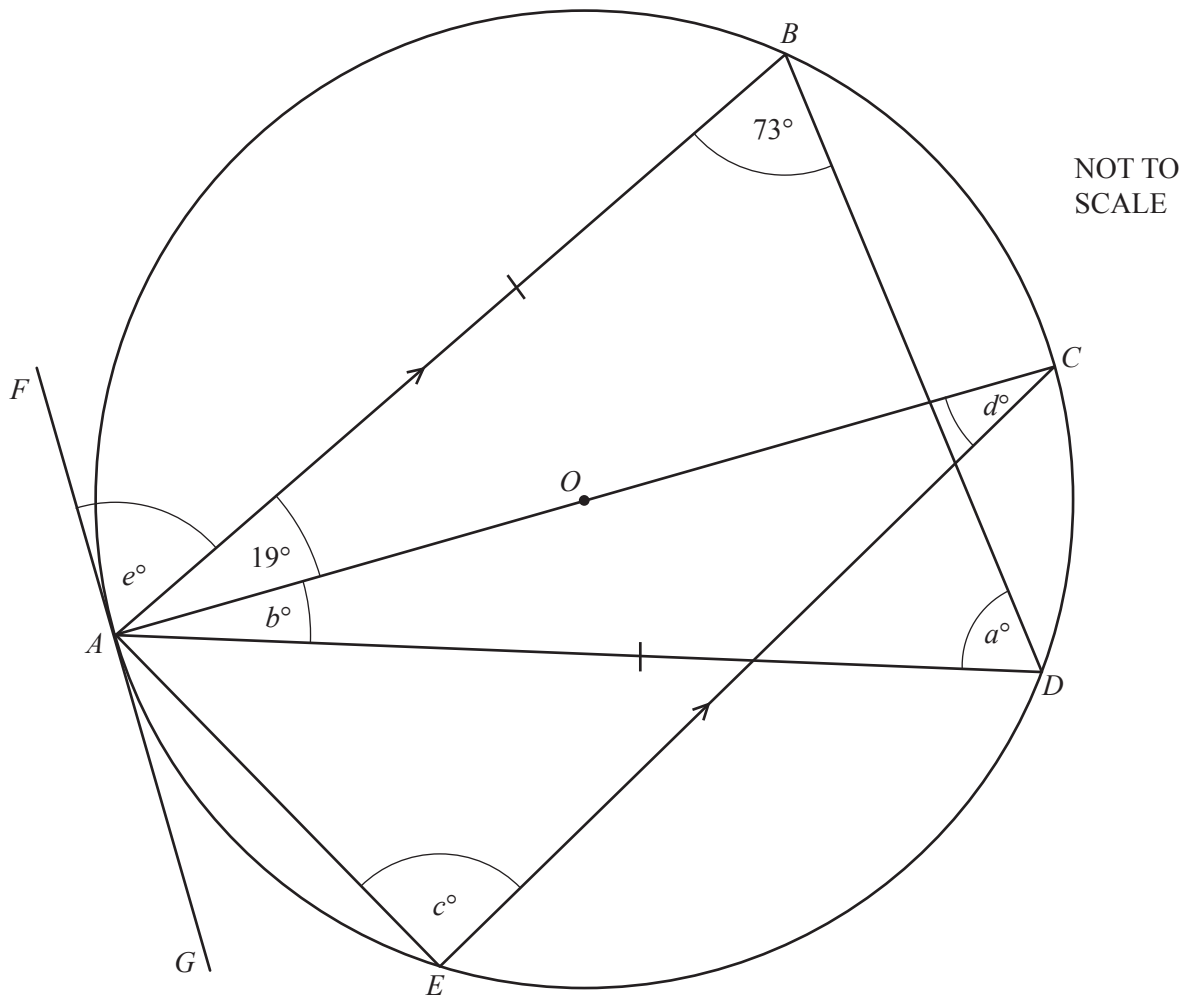
Score: /10

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.

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