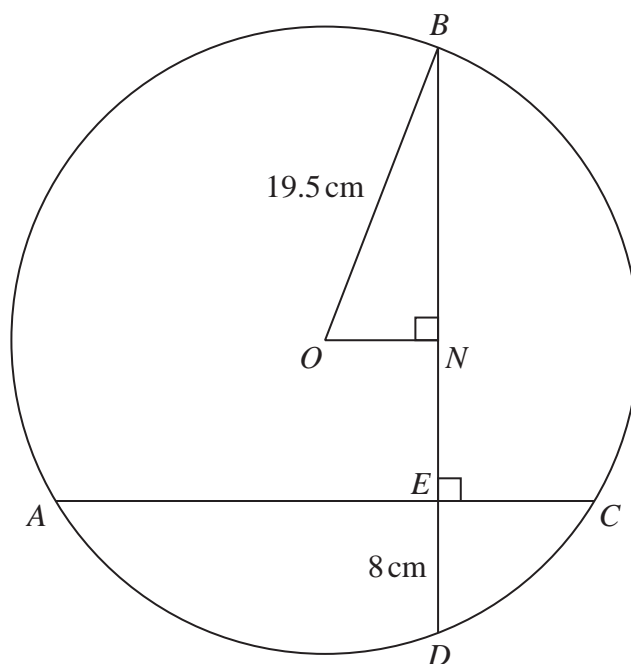**23**

Diagram **NOT** accurately drawn

A, *B*, *C* and *D* are points on a circle with centre *O* and radius 19.5 cm

AEC and *BNED* are chords of the circle.

$$\angle BEC = \angle BNO = 90° \qquad BD = 36\,\text{cm} \qquad ED = 8\,\text{cm}$$

(a) Show that *ON* = 7.5 cm

(2)

(b) Calculate the length, in cm to 3 significant figures, of *AC*

$AC = $ .... cm

(4)

(Total for Question 23 is 6 marks)

Turn over for Question 24

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