11 The diagram shows a shaded shape *ABCDEO* made from a semicircle *BCD* and two identical right-angled triangles *ABO* and *EDO*

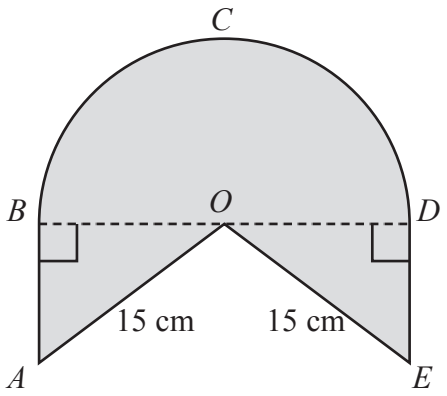


Diagram **NOT** accurately drawn

BD is the diameter of the semicircle.
O is the midpoint of *BD*

angle *ABO* = angle *EDO* = 90° $AO = EO = 15$ cm

The area of semicircle *BCD* is $227\ \text{cm}^2$

Work out the perimeter of the shaded shape.
Show your working clearly.
Give your answer correct to one decimal place.

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(Total for Question 11 is 5 marks)