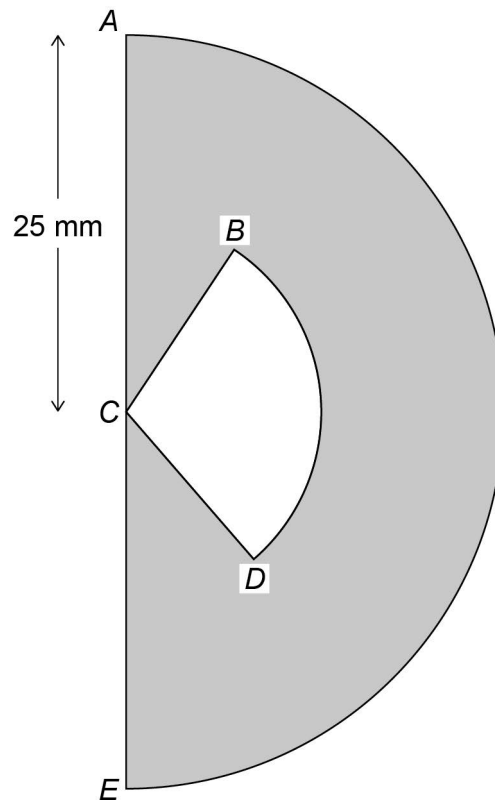


22

The cross section of an earring is a semicircle, centre  $C$ , radius 25 mm

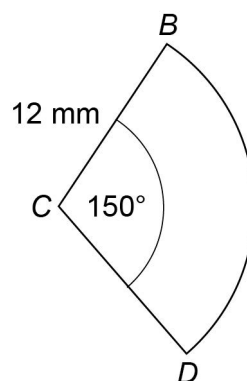
The earring is black and white.

The shaded area is black.



Not drawn  
accurately

Sector  $BCD$  is white and has radius 12 mm



Not drawn  
accurately



Is more than 20% of the semicircle white?

You **must** show your working.

**[5 marks]**

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Answer \_\_\_\_\_

**Turn over for the next question**

5
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**Turn over ►**

