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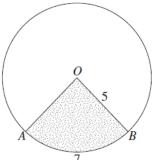
7 The circle centred at *O* has radius 5. Arc *AB* has length 7 as shown in the diagram. What is the area of the shaded sector *OAB*?



(A)
$$\frac{35}{2}$$
 (B) $\frac{35}{2} \pi$

(C)
$$\frac{125}{14}$$

(D)
$$\frac{125}{14}\pi$$



Α

Use
$$\ell = r\theta$$
:
 $7 = 5\theta$
 $\theta = \frac{7}{5}$
Use $A = \frac{1}{2}r^2\theta$:
 $= \frac{1}{2} \times 5^2 \times \frac{7}{5}$
 $= \frac{35}{2}$

State Mean: **0.71**

^{*} These solutions have been provided by *projectmaths* and are not supplied or endorsed by BOSTES.