

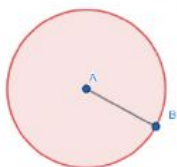
## Area of sector:

We know:

$$\text{Area} = 2 \pi R^2$$

AB = radius = R

degrees =  $360^\circ$

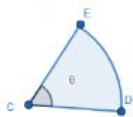


We know:

$\theta^\circ$

We need to find:

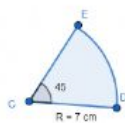
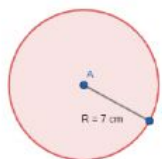
sector CED



$$\frac{\pi R^2}{360^\circ} = \frac{\text{sector CED}}{\theta^\circ}$$

Plug in what you know, then cross multiply to solve.

ex



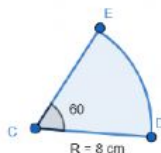
$$\frac{2\pi \cdot 7^2}{360^\circ} = \frac{\text{sector CED}}{45^\circ}$$

$$\frac{2\pi \cdot 7 \cdot 7 \cdot 45}{360^\circ} = \text{sector CED}$$

$$\frac{49}{8}\pi = \text{sector CED}$$

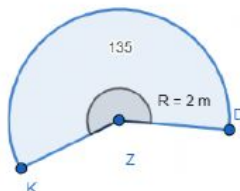
$$19.24 \text{ cm}^2 = \text{sector CED}$$

Fill in the text boxes, and find the length of arc



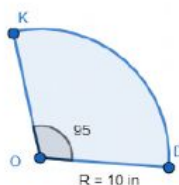
$$\frac{2\pi \cdot \quad^2}{\quad} = \frac{\text{sector}}{\quad}$$

$$\frac{\quad \pi \quad^2}{\quad} = \text{sector}$$



$$\frac{2\pi \cdot \quad^2}{\quad} = \frac{\text{sector}}{\quad}$$

$$\frac{\quad \pi \quad^2}{\quad} = \text{sector}$$



$$\frac{2\pi \cdot \quad^2}{\quad} = \frac{\text{sector}}{\quad}$$

$$\frac{\quad \pi \quad^2}{\quad} = \text{sector}$$