

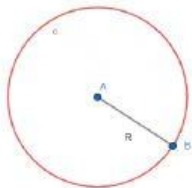
Arc length:

We know:

Length = Circumference = $2\pi R$

AB = radius = R

degrees = 360°



We know:

θ°

We need to find:

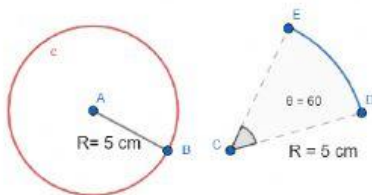
arc ED



$$\frac{2\pi R}{360^\circ} = \frac{\text{arc ED}}{\theta^\circ}$$

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

ex



$$\frac{2\pi \cdot 5}{360^\circ} = \frac{\text{arc ED}}{60^\circ}$$

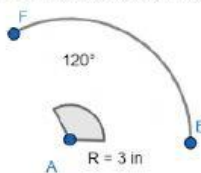
$$\frac{10\pi}{360^\circ} = \frac{\text{arc ED}}{60^\circ}$$

$$\frac{60 \cdot 10\pi}{360^\circ} = \text{arc ED}$$

$$\frac{5\pi}{3} = \text{arc ED}$$

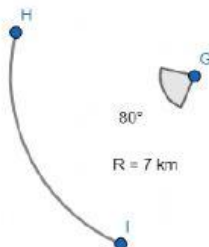
$$5.23 \text{ cm} = \text{arc ED}$$

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



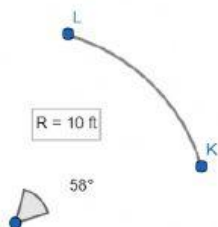
$$\frac{2\pi \cdot}{0} = \frac{\text{arc}}{}$$

$$\text{arc} = \text{ } \pi \text{ in}$$



$$\frac{2\pi \cdot}{0} = \frac{\text{arc}}{}$$

$$\text{arc} = \text{ } \pi \text{ km}$$



$$\frac{2\pi \cdot}{0} = \frac{\text{arc}}{}$$

$$\text{arc} = \text{ } \pi \text{ ft}$$