

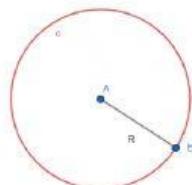
Arc length:

We know:

$$\text{Length} = \text{Circumference} = 2\pi R$$

$$AB = \text{radius} = R$$

$$\text{degrees} = 360^\circ$$



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

We know:

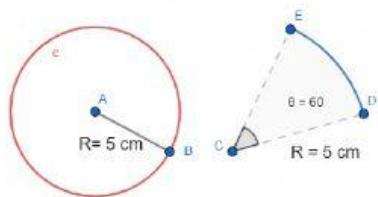
$$0^\circ$$

We need to find:
arc ED



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

ex



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

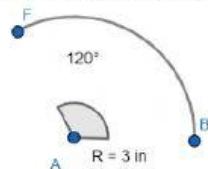
$$\frac{10\pi}{360^\circ} = \frac{\text{arc } ED}{60^\circ}$$

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

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

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

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



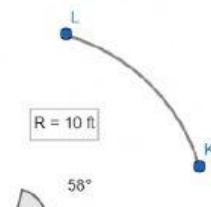
$$\frac{2\pi \cdot R}{360^\circ} = \frac{\text{arc}}{\theta^\circ}$$

$$\text{arc} = \underline{\hspace{2cm}} \pi \text{ in}$$



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

$$\text{arc} = \underline{\hspace{2cm}} \pi \text{ km}$$



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

$$\text{arc} = \underline{\hspace{2cm}} \pi \text{ ft}$$