

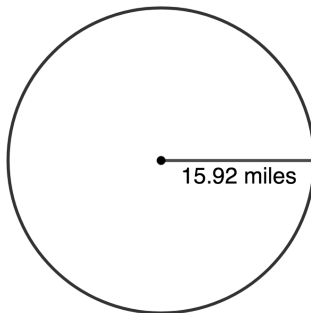
Making Connections: Nardo Ring

Student Methods

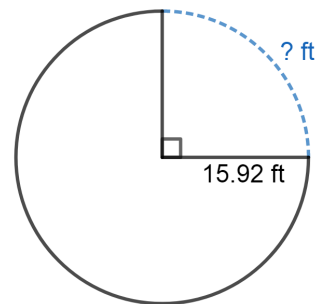
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Big Idea: There is a constant proportional relationship between an angle and its arc measures on a circle.

What is the circumference?

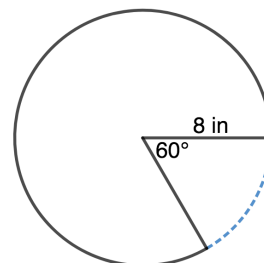
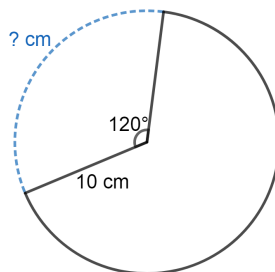


What is the length of the dashed arc?



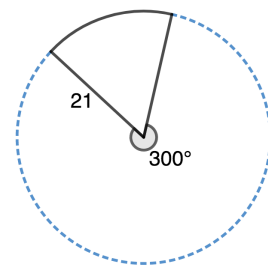
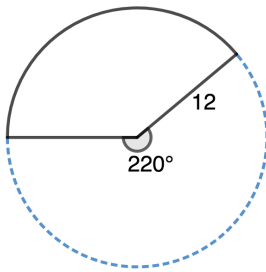
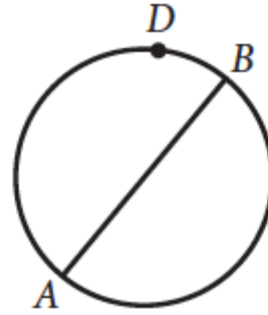
Here are two possible formulas. How do they compare to our methods?

$$\frac{\text{central angle}}{360^\circ} \cdot 2\pi r \quad \text{or} \quad \frac{\text{arc length}}{2\pi r} = \frac{\text{central angle}}{360^\circ}$$



In the circle, segment AB is a diameter. If the length of arc \widehat{ADB} is 8π , what is the length of the radius of the circle?

- A) 2
- B) 4
- C) 8
- D) 16



The circle with center O has a circumference of 36.

What is the length of minor arc \widehat{AC} ?

- A) 9
- B) 12
- C) 18
- D) 36

