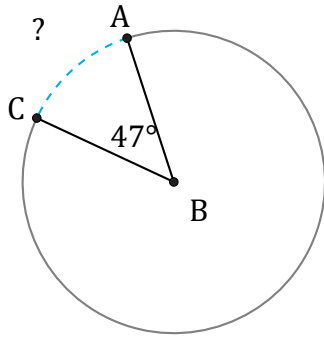


Arc Length (A)

Name: _____

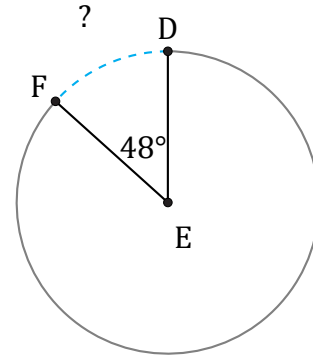
Date: _____

Calculate each arc length.



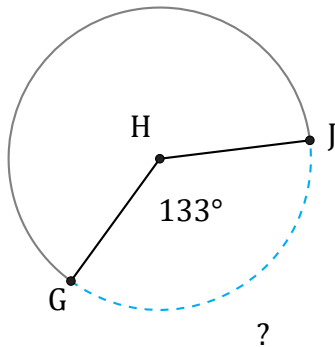
Radius = 399 ft

$\widehat{AC} =$



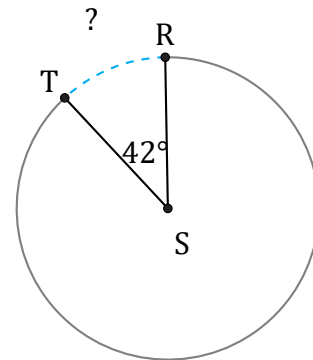
Diameter = 136 AU

$\widehat{DF} =$



Radius = 639 mi

$\widehat{GJ} =$



Diameter = 18 mm

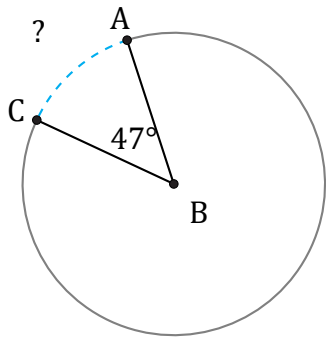
$\widehat{RT} =$

Arc Length (A) Answers

Name: _____

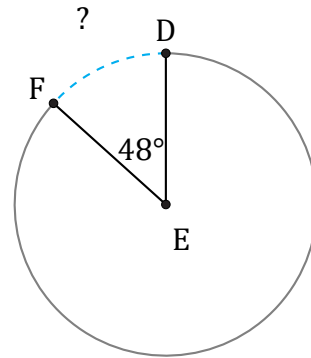
Date: _____

Calculate each arc length.



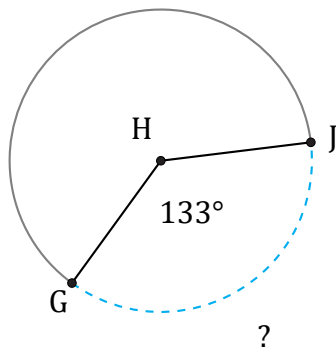
Radius = 399 ft

$$\widehat{AC} = \frac{47}{360} \times \pi \times 399 \times 2 = 327.3 \text{ ft}$$



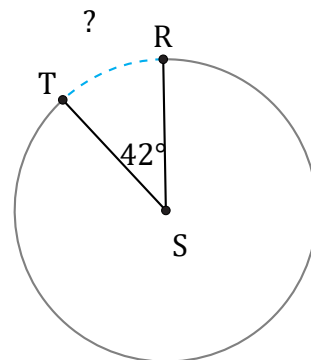
Diameter = 136 AU

$$\widehat{DF} = \frac{48}{360} \times \pi \times 136 = 56.97 \text{ AU}$$



Radius = 639 mi

$$\widehat{GJ} = \frac{133}{360} \times \pi \times 639 \times 2 = 1483.3 \text{ mi}$$



Diameter = 18 mm

$$\widehat{RT} = \frac{42}{360} \times \pi \times 18 = 6.6 \text{ mm}$$