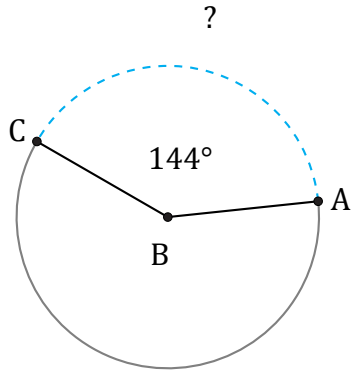


# Arc Lengths and Angles (G)

Name: \_\_\_\_\_

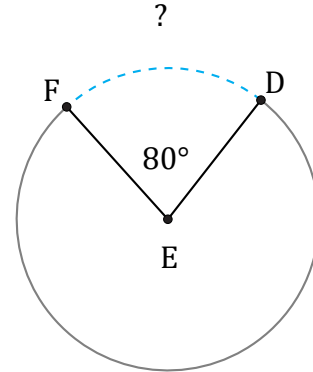
Date: \_\_\_\_\_

Calculate each arc length or angle measurement.



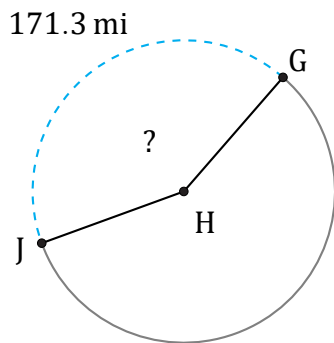
Diameter = 1664 in

$\widehat{AC} =$



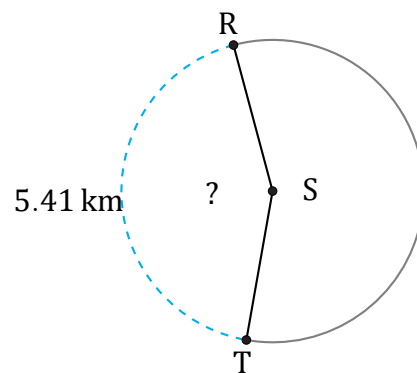
Circumference = 4467.34 AU

$\widehat{DF} =$



Radius = 65 mi

$\angle GHJ =$



Diameter = 4 km

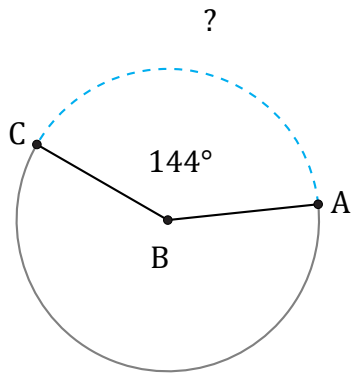
$\angle RST =$

# Arc Lengths and Angles (G) Answers

Name: \_\_\_\_\_

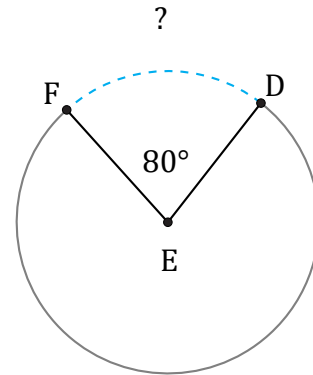
Date: \_\_\_\_\_

Calculate each arc length or angle measurement.



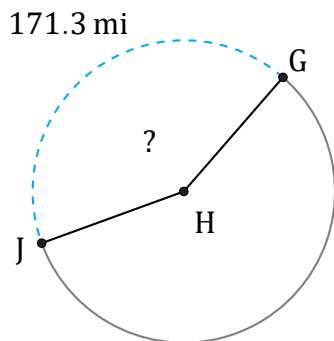
Diameter = 1664 in

$$\widehat{AC} = \frac{144}{360} \times \pi \times 1664 = 2091.04 \text{ in}$$



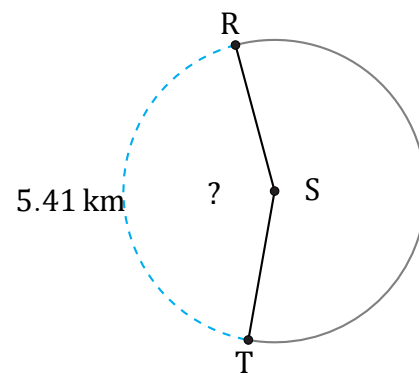
Circumference = 4467.34 AU

$$\widehat{DF} = \frac{80}{360} \times 4467.34 = 992.74 \text{ AU}$$



Radius = 65 mi

$$\angle GHJ = \frac{171.3}{65 \times \pi \times 2} \times 360 = 151^\circ$$



Diameter = 4 km

$$\angle RST = \frac{5.41}{4 \times \pi} \times 360 = 155^\circ$$