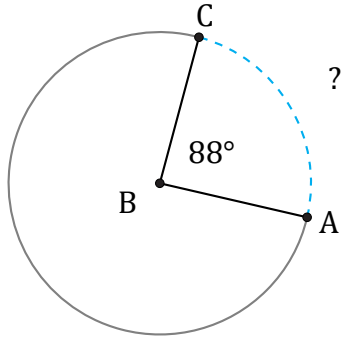


Arc Lengths and Angles (D)

Name: _____

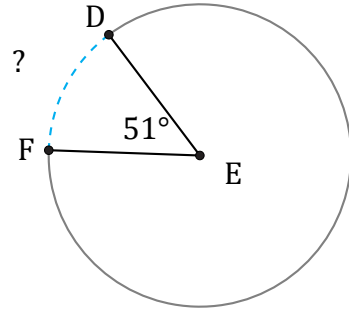
Date: _____

Calculate each arc length or angle measurement.



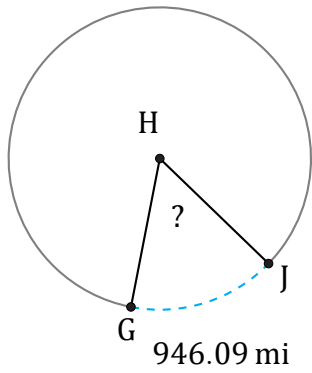
Diameter = 10 AU

$\widehat{AC} =$



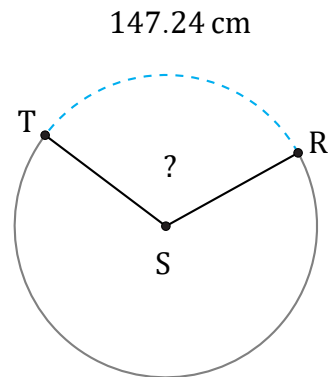
Diameter = 18 in

$\widehat{DF} =$



Diameter = 1902 mi

$\angle GHJ =$



Diameter = 148 cm

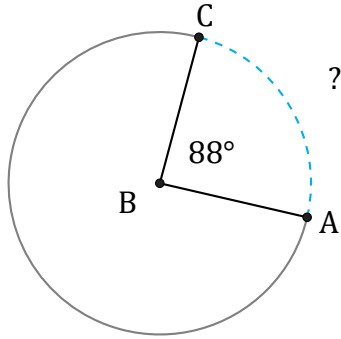
$\angle RST =$

Arc Lengths and Angles (D) Answers

Name: _____

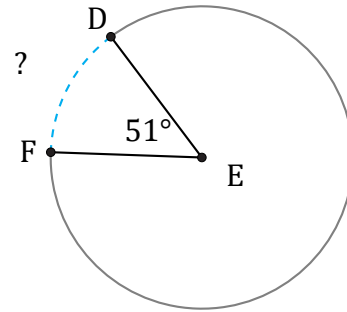
Date: _____

Calculate each arc length or angle measurement.



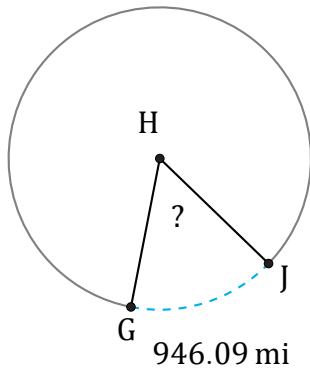
Diameter = 10 AU

$$\widehat{AC} = \frac{88}{360} \times \pi \times 10 = 7.68 \text{ AU}$$



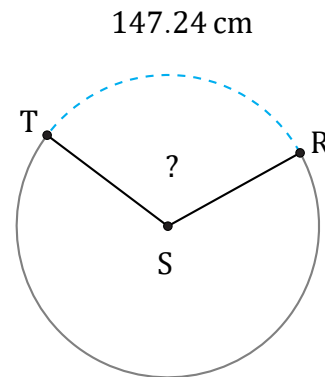
Diameter = 18 in

$$\widehat{DF} = \frac{51}{360} \times \pi \times 18 = 8.01 \text{ in}$$



Diameter = 1902 mi

$$\angle GHJ = \frac{946.09}{1902 \times \pi} \times 360 = 57^\circ$$



Diameter = 148 cm

$$\angle RST = \frac{147.24}{148 \times \pi} \times 360 = 114^\circ$$