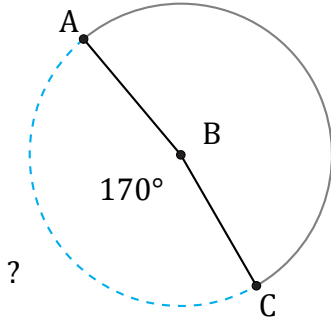


# Arc Lengths and Angles (A)

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

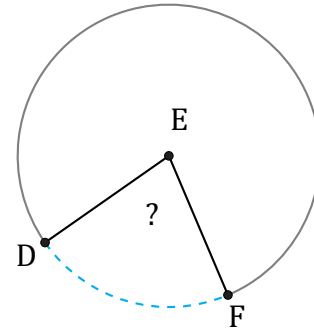
Date: \_\_\_\_\_

Calculate each arc length or angle measurement.



Circumference = 4398.23 AU

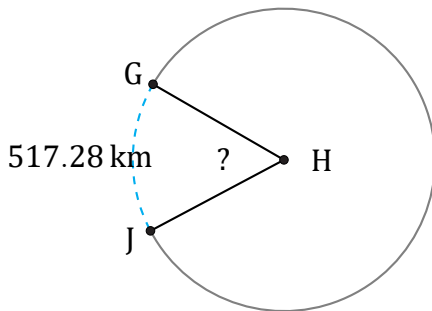
$\widehat{AC} =$



544.54 m

Circumference = 2513.27 m

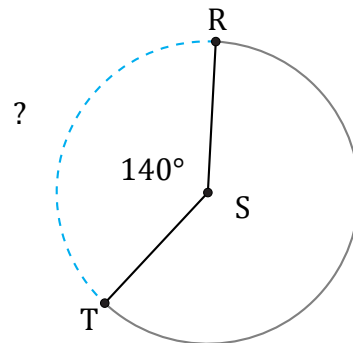
$\angle DEF =$



517.28 km

Circumference = 3210.71 km

$\angle GHJ =$



Circumference = 5114.51 m

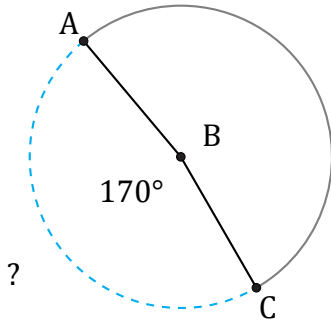
$\widehat{RT} =$

# Arc Lengths and Angles (A) Answers

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

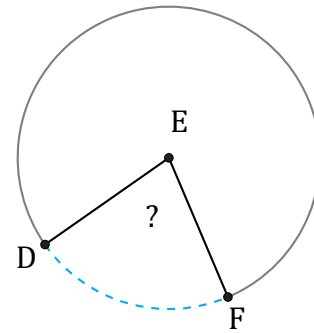
Date: \_\_\_\_\_

Calculate each arc length or angle measurement.



Circumference = 4398.23 AU

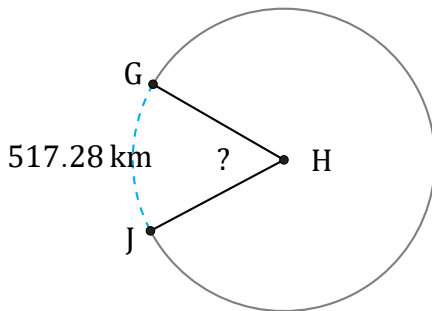
$$\widehat{AC} = \frac{170}{360} \times 4398.23 = 2076.94 \text{ AU}$$



544.54 m

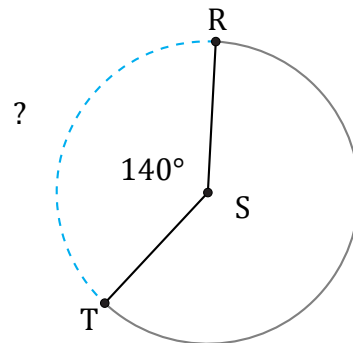
Circumference = 2513.27 m

$$\angle DEF = \frac{544.54}{2513.27} \times 360 = 78^\circ$$



Circumference = 3210.71 km

$$\angle GHJ = \frac{517.28}{3210.71} \times 360 = 58^\circ$$



Circumference = 5114.51 m

$$\widehat{RT} = \frac{140}{360} \times 5114.51 = 1988.98 \text{ m}$$