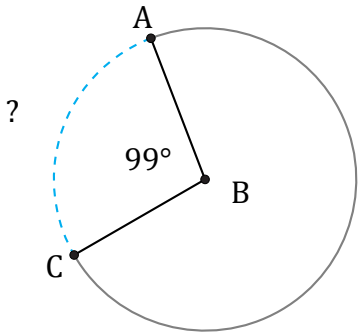
Arc Lengths and Angles (J)

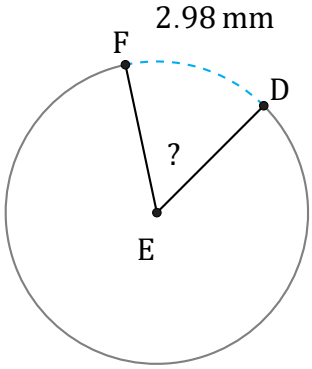
Name: _____ Date: _____

Calculate each arc length or angle measurement.



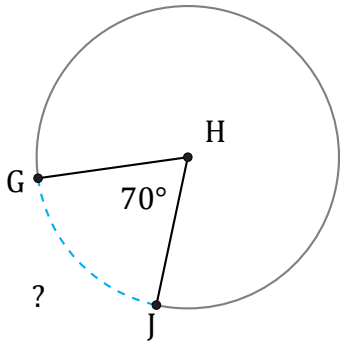
Diameter = 16 m

$\overset{\frown}{AC}$ =



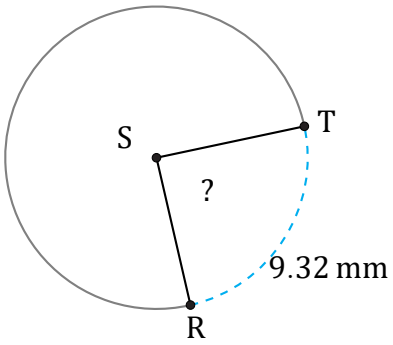
Diameter = 6 mm

∠DEF =



Radius = 9 km

$\overset{\frown}{GJ}$ =



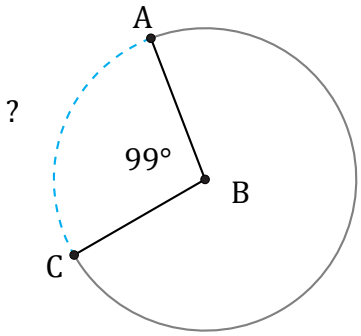
Radius = 6 mm

∠RST =

Arc Lengths and Angles (J) Answers

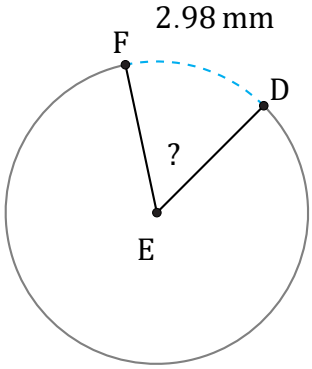
Name: _____ Date: _____

Calculate each arc length or angle measurement.



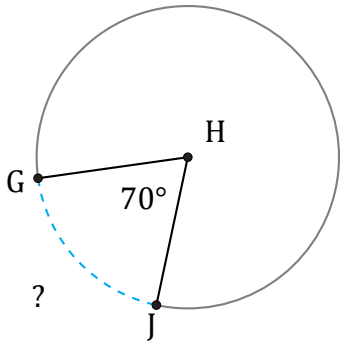
Diameter = 16 m

$\overset{\frown}{AC} = \frac{99}{360} \times \pi \times 16 = 13.82$ m



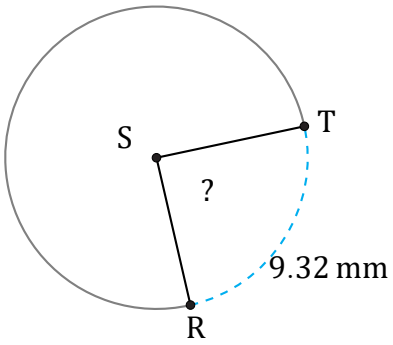
Diameter = 6 mm

$\angle DEF = \frac{2.98}{6 \times \pi} \times 360 = 56.9°$



Radius = 9 km

$\overset{\frown}{GJ} = \frac{70}{360} \times \pi \times 9 \times 2 = 11$ km



Radius = 6 mm

$\angle RST = \frac{9.32}{6 \times \pi \times 2} \times 360 = 89°$