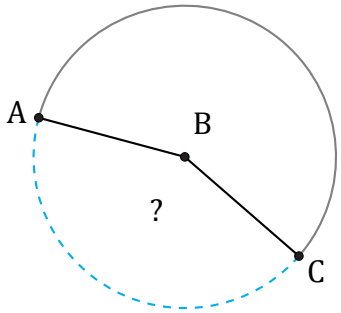
Arc Lengths and Angles (G)

Name: _____ Date: _____

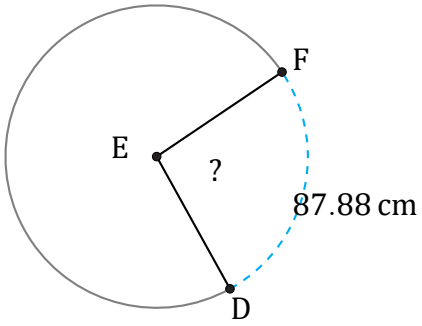
Calculate each arc length or angle measurement.



2574.92 mm

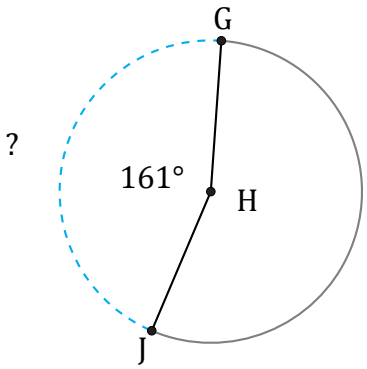
Radius = 958 mm

∠ABC =



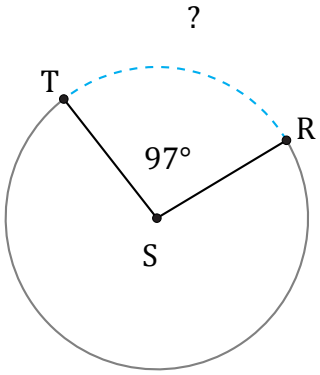
Radius = 53 cm

∠DEF =



Radius = 8 m

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



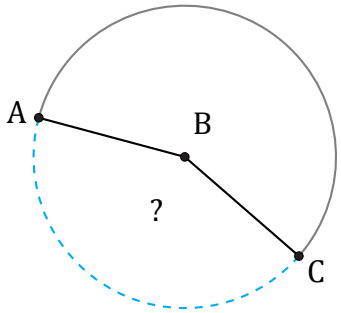
Radius = 705 mm

$\overset{\frown}{RT}$ =

Arc Lengths and Angles (G) Answers

Name: _____ Date: _____

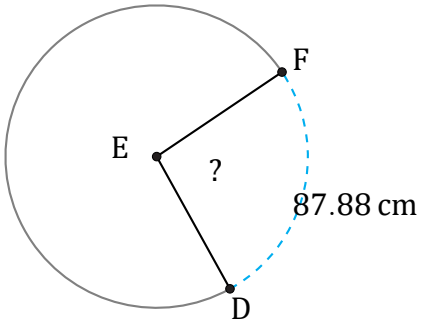
Calculate each arc length or angle measurement.



2574.92 mm

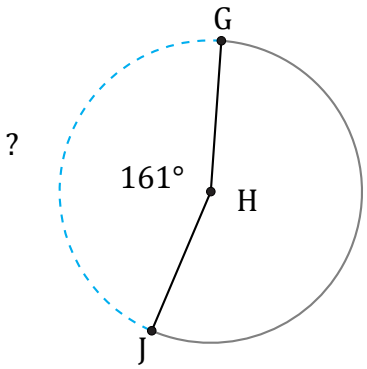
Radius = 958 mm

$\angle ABC = \frac{2574.92}{958 \times \pi \times 2} \times 360 = 154°$



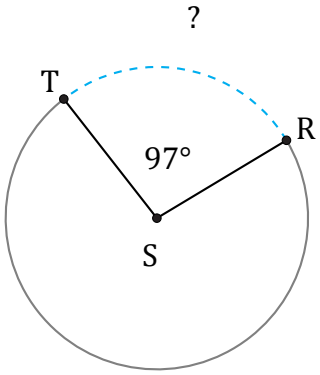
Radius = 53 cm

$\angle DEF = \frac{87.88}{53 \times \pi \times 2} \times 360 = 95°$



Radius = 8 m

$\overset{\frown}{GJ} = \frac{161}{360} \times \pi \times 8 \times 2 = 22.48\text{ m}$



Radius = 705 mm

$\overset{\frown}{RT} = \frac{97}{360} \times \pi \times 705 \times 2 = 1193.54\text{ mm}$