Name: $\qquad$

## Lesson Guide

This lesson guide accompanies the following video lesson:

## Arc Length and Sector Area Practice Problems

- Practice Problems

Use the arc length and sector area formulas to solve the following problems. Round your answer to the nearest hundredths decimal place. Draw a diagram to help you!

## Formula Reference

## Arc Length <br> 



A 14.75 inch long windshield wiper blade starts at a horizontal resting position and swipes upward on an arc at an angle of $132^{\circ}$. How many square inches of the windshield's surface does the blade cover on any given swipe?

$\qquad$

Tyler and Jordan are partners in a relay race on a curved track with a radius of $\mathbf{2 5}$ meters. If Jordan's location on the track is 153 degrees away from Tyler's, how much distance is between them on the track?


My Answer: $\qquad$

## ANSWER KEY

1.) $\mathbf{2 5 0 . 6}$ square inches
2.) 66.8 meters

