Geometry

11.3 Circumference and Arc Length (11.1)

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Circumference of a Circle

- _____ around the _____
- Like _____

π

- Ratio of the _____ to the _____ of a circle
- Estimated in 2 Chronicles 4:2 and 1 Kings 7:23 as _____
- _____

Circumference of a Circle

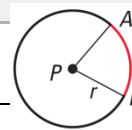$C =$ _____

$C =$ _____

Find the circumference of a circle with diameter 5 inches.

Find the diameter of a circle with circumference 17 feet.

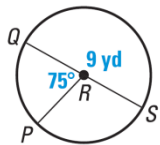A car tire has a diameter of 28 inches. How many revolutions does the tire make while traveling 500 feet?

Arc Length
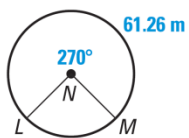
- Portion of the _____ that an _____ covers
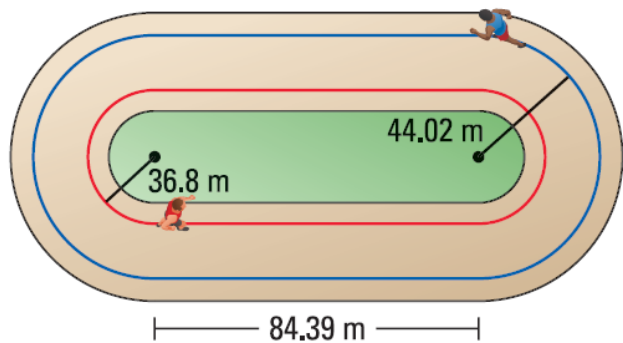

Arc Length

Arc Length =_____

Find the length of $\overwideparen{PQ}$.

9 yd
75°

Find the Circumference of $\odot N$.

61.26 m
270°

How far does the runner on the outside path travel in one lap. Round to the nearest tenth of a meter.

44.02 m
36.8 m
84.39 m

Assignment: 586 #2, 4, 5, 6, 7, 9, 10, 11, 12, 14, 15, 16, 22, 26, 29, 43, 45, 46, 47, 49 = 20 total