

# Geometry

## 11.3 Circumference and Arc Length (11.1)

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### Circumference of a Circle

- \_\_\_\_\_ around the \_\_\_\_\_
- Like \_\_\_\_\_

### $\pi$

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

### Circumference of a Circle

$$C = \underline{\hspace{2cm}}$$

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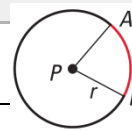
Find the circumference of a circle with diameter 5 inches.

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**

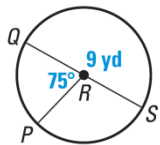
- Portion of the \_\_\_\_\_ that an \_\_\_\_\_ covers



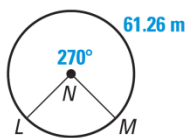
**Arc Length**

Arc Length = \_\_\_\_\_

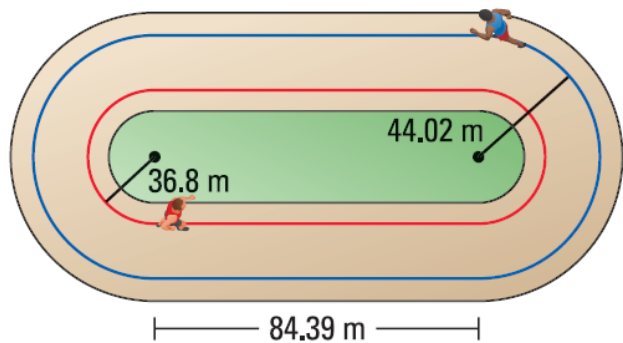
Find the length of  $\widehat{PQ}$ .



Find the Circumference of  $\odot N$ .



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



Assignment: 586 #2, 4, 5, 6, 7, 9, 10, 11, 12, 14, 15, 16, 22, 26, 29, 43, 45, 46, 48, 49 = 20 total