Geometry

11.4 Circumference and Arc Length

# Circumference of a Circle

circle

distance

* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ around the \_\_\_\_\_\_\_

perimeter

* Like \_\_\_\_\_\_\_\_\_\_\_\_\_

## π

diameter

circumference

* Ratio of the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to the \_\_\_\_\_\_\_\_\_\_\_\_ of a circle

3

* Estimated in 2 Chronicles 4:2 and 1 Kings 7:23 as \_\_\_\_\_

3.141592654…

* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Circumference of a Circle

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

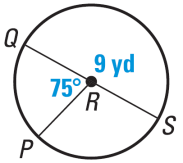
arc

circumference

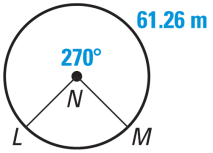
* Portion of the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ that an \_\_\_\_\_ covers

## Arc Length

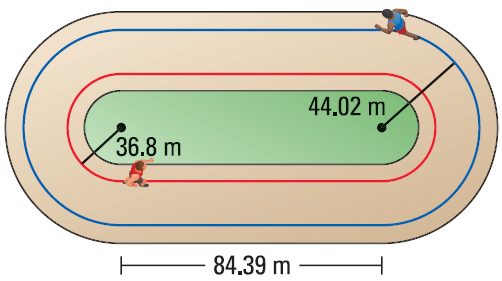
Find the length of .



Find the Circumference of .



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



The two ends make a circle

Add the two straight stretches

Assignment: 749 #2-38 even, 42-48 even = 23