Geometry

11.4 Circumference and Arc Length

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 ______
- ______________________

\[ C = \underline{\text{________}} \]

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

\[ \text{Arc Length} = \text{____________________} \]

Find the length of \( \overline{PQ} \).

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