5.8 Learning Opportunity

Name: _____

Measurement: Circumference

Circumference = πd Circumference = 2πr For exact answers you must use the symbol π.
For rough estimates use π ≈ 3, for more precise estimates use π ≈ 3.14

Calculate a rough estimate (using π ≈ 3) of the circumference of each of the three circles shown below.

1) d = 5.5 cm.

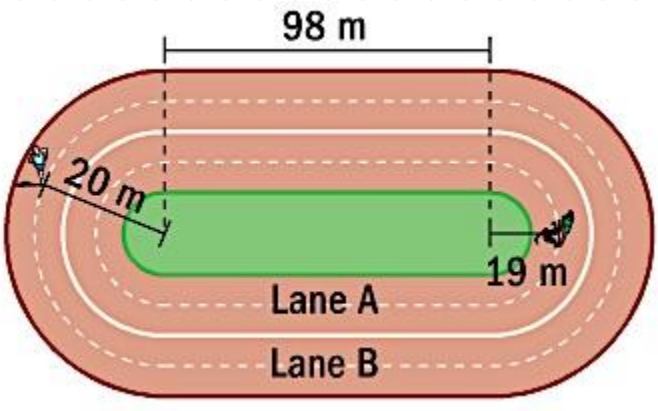
2) r = 4.5 in.

3) d = 14 in.

4) Determine the circumference of the basketball hoop show below (estimate using π ≈ 3.14)

diameter = 18 inches

5) The ends of the track shown are semicircles (half of a circle). Exactly how much farther would you run by running one lap in the center of lane B than if you ran one lap in the center of Lane A?



6) The first Ferris wheel, named after its designer, George Ferris, was built in 1893. The circumference was approximately 237 meters. Find a rough estimate of the diameter of the Ferris wheel.