

Name: _____

iFLY Ball Flight Measurement Worksheet

Ball type: _____

1. Use the scale to measure the mass of the ball

mass = _____ g

2. Measure the circumference (C) of the ball

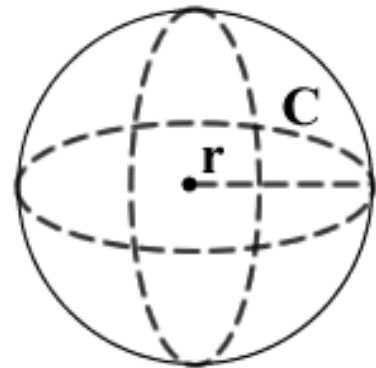
C = _____ cm

3. Find the radius of the ball

$$C = 2\pi r$$

$$r = \frac{C}{2\pi}$$

r = _____ cm



4. Use the radius to calculate the frontal area (the area the wind “sees”)

$$A = \pi r^2$$

A = _____ cm²

5. With your group, discuss how area and weight would contribute to the ball’s terminal velocity. How does your ball compare to those of the other groups?