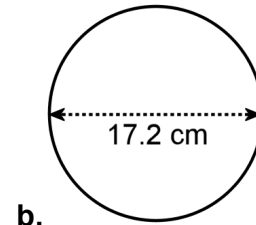# Circle

1. Find the areas and circumferences
   of these two circles.

   **a.** 24 ft

   b. 17.2 cm
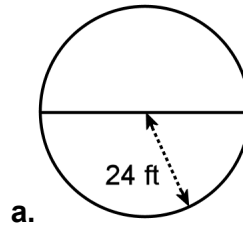
2. Find the area of a circle whose

   a. diameter is 6 3/16 inches

   b. circumference is 6.5 miles

3. The diameter of the colored (outer) circle is 14 cm, and
   the diameter of the inner circle is half that.

   a. Find the colored area in square centimeters.

   b. How many percent is the area of the smaller
   circle of the area of the bigger circle?
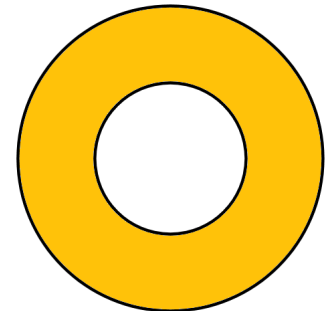
4. Draw a square and a circle so that both
   have an area of 16 cm^2. Does one of them
   "appear" bigger to the eye (even though
   we know both have the same area)?
   Or do both look like they would have the
   same area?

5. A typical 400-meter race track consists of a rectangle with 100 meter
   longer sides, and two semicircles attached to both ends of the rectangle
   so that the circumference of each semicircle is 100 meters.
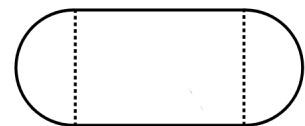
   What is the total area of the shape?

6. This is a picture of the Jackson's back yard. They've just added
   a circle-shaped herb garden in their yard that previously was
   all lawn.

   a. Find the lawn area now.

   b. How many percent smaller is the lawn
   area now than before?

100 ft

29 ft

15 ft

52 ft

46 ft