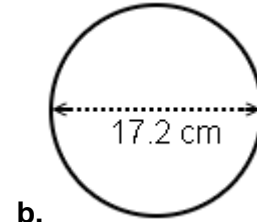
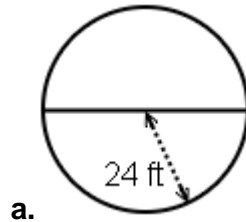


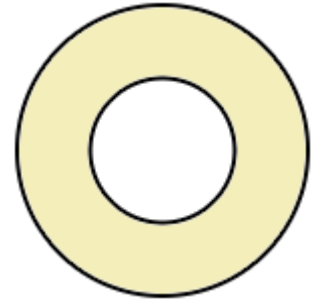
Circle

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



2. Find the area of a circle whose
- diameter is $6\frac{3}{16}$ inches
 - 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.
- Find the colored area in square centimeters.
 - 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.

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

