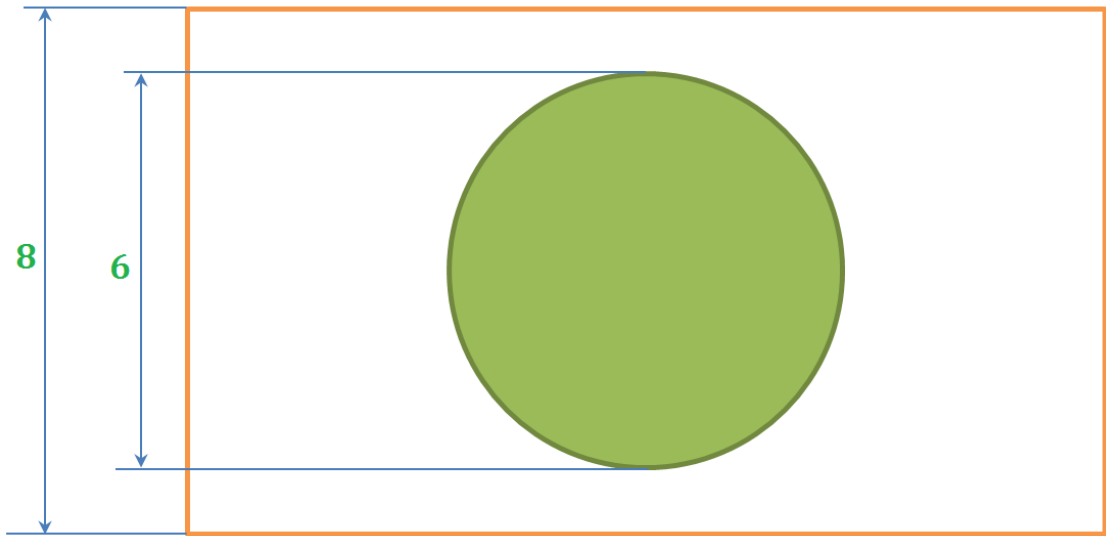


**Solution.**



Height = 8 feet

Take away 1 foot from top is **7 feet** then another foot from bottom is **6 feet**.

So the diameter = 6 feet, then the radius  $R = \frac{6}{2} = 3$  feet.

The area of the circle:

$$S = \pi R^2 = 3^2\pi = 9\pi \text{ (feet)}$$

The circumference of the circle:

$$L = 2\pi R = 6\pi \text{ (feet)}$$

**Answer:**  $R = 3$  feet;  $S = 9\pi$  feet;  $L = 6\pi$  feet.