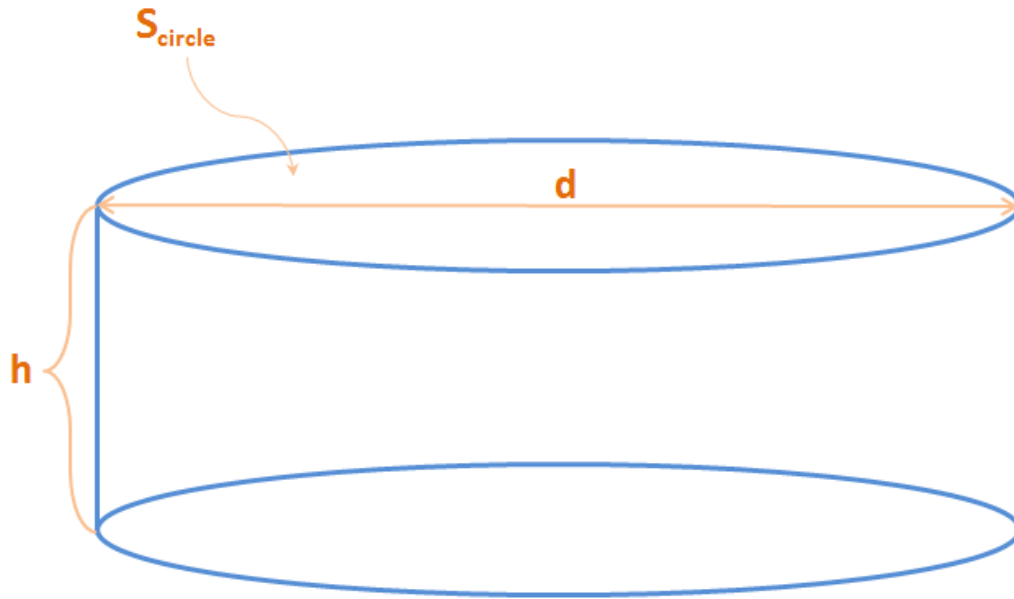


Birdbath has a diameter of 22 inches what is the volume of the birdbath if it is 4 inches deep.

**Solution.**



$$d = 22 \text{ inches}$$

$$h = 4 \text{ inches}$$

The volume of bath it's the area of circle multiplied on deep. We can write a formula:

$$V = S_{circle}h$$

If we have a diameter, then

$$S_{circle} = \pi R^2$$

We know that

$$R = \frac{d}{2}$$

so

$$S_{circle} = \frac{\pi d^2}{4}$$

Then the volume:

$$V = S_{circle}h = \frac{\pi d^2}{4}h = \frac{3,14 * (22)^2}{4} * 4 = 3,14 * 484 = 1519,76 \text{ (inches)}^3$$

**Answer:**

The volume of birdbath is  $1519,76 \text{ (inches)}^3$