

L1 Missing measures

Sometimes... we know the **Volume** or **Surface Area** of an object and we need to find the radius, height or side length.

When looking for a missing measure of a solid:

- 1. choose and write down the applicable formula (as an equation) based on the given information
- 2. substitute in all known values
- 3. solve for the unknown value

1

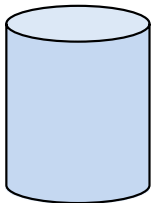
Ex 1: Find the radius of the sphere



$V=2028\pi\text{ cm}^3$

2

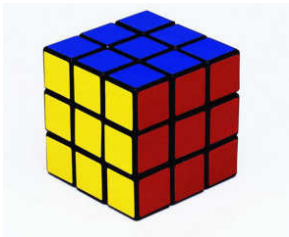
Ex 2: Find the height of the cylinder



$A_T=26.39\text{ m}^2$
 $r= 1.2\text{ m}$

3

Ex 3: Find the side length of the cube



$V=185.2\text{ cm}^3$

4

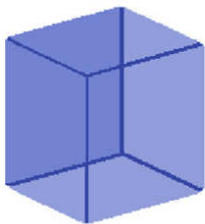
Ex 4: Find the radius of the cylinder



$V= 124181\text{ cm}^3$
 $h=122\text{ cm}$

5

Ex 5: Find the side length of the cube



$A_T=294\text{ cm}^2$