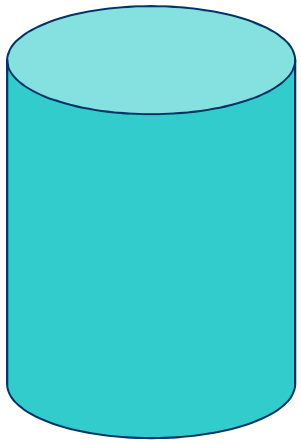
Cylinders

Cylinder

- A **cylinder** is a solid figure, bounded by two equal, parallel circles, and by a curved surface, formed by moving a straight line of fixed length so that its ends always lie on the two parallel circles.

Cylinder

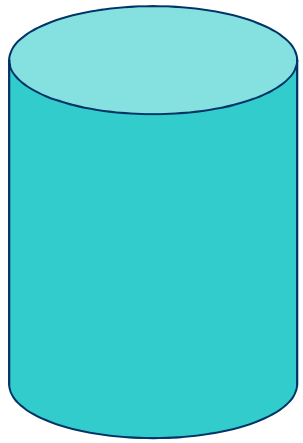


Cylinder

- A carpenter would need to know how to calculate the volume of a cylinder when using concrete to set fence posts or when setting a cylindrical footing for a structure.

Volume of a Cylinder

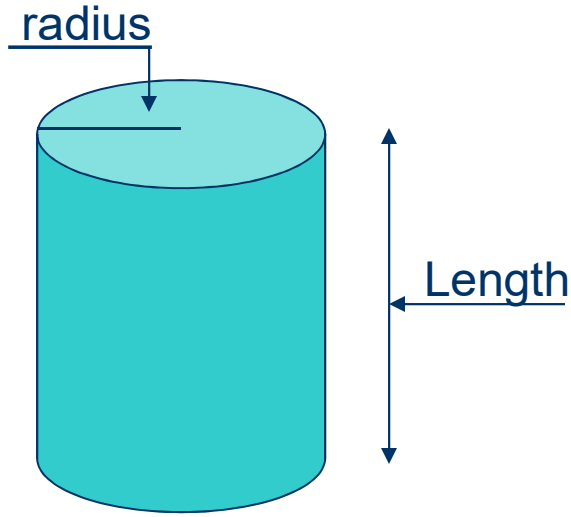
- To calculate the volume of a cylinder, you must first calculate the area of the end.
- Then you simply multiply the area of the end by the height of the cylinder.



Volume of a Cylinder

- First find the area of the circle:

$$A = \pi r^2$$

- Then multiply the area by the length to find the volume.

$$V = AL$$