

A sports ball has a volume of $1\,000\text{ cm}^3$. What is the diameter of the ball?

A shoebox has a volume of $1\,000\text{ cm}^3$. The width of the shoebox is double the height and the length is triple the height. What is the height of the box?

A juice can has a volume of $1\,000\text{ cm}^3$. The height of the can is equal to the diameter.

What is the radius of the can?

A waffle cone has a volume of $1\,000\text{ cm}^3$. The radius of the cone is one quarter of the height. What is the height of the cone?