

Info Gap: Unknown Dimensions

**Problem Card 1**

A cone and a sphere have the same dimensions.  
What is the volume of the sphere?

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**Data Card 1**

- The volume of the cone is  $V = 144\pi \text{ cm}^3$ .
- The radius of the cone is the same as the radius of the sphere.
- $4^3 = 64$ ,  $5^3 = 125$ ,  $6^3 = 216$ ,  $7^3 = 343$

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**Problem Card 2**

A cone and a sphere have the same height. What  
is the volume of the sphere?

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**Data Card 2**

- The volume of the cone is  $V = 18\pi \text{ cm}^3$ .
- The radius of the sphere is half the height of the cone.
- The height of the cone is twice the value of the radius of the cone.
- $4^3 = 64$ ,  $5^3 = 125$ ,  $6^3 = 216$ ,  $7^3 = 343$

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