

Name : \_\_\_\_\_

## Volume - Sphere and Hemisphere

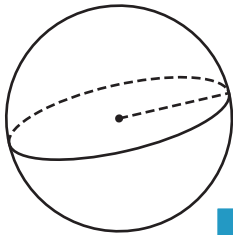
L2S1

A) Find the indicated measure. Round your answer to the nearest tenth.  
(use  $\pi = 3.14$ )

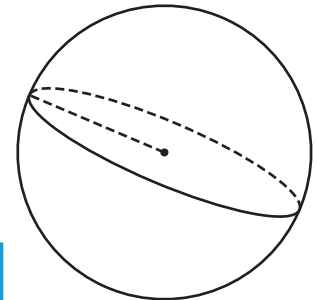
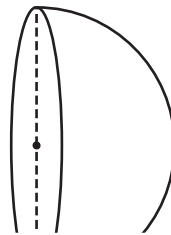
1) Volume =  $212.07 \text{ in}^3$

2) Volume =  $12,619.8 \text{ ft}^3$

3) Volume =  $39,329.26 \text{ yd}^3$



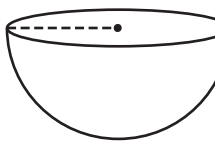
radius = \_\_\_\_\_



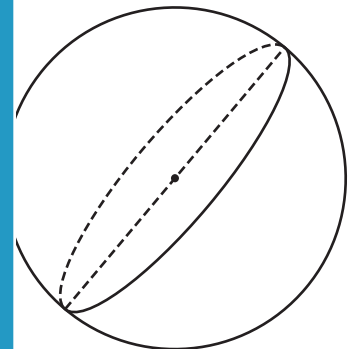
radius = \_\_\_\_\_

4) Volume =  $408.43 \text{ yd}^3$

Volume =  $80,588.44 \text{ ft}^3$



radius = \_\_\_\_\_



diameter = \_\_\_\_\_

7) The volume of a sphere is  $3,101.37 \text{ ft}^3$ . Find the radius of the sphere. Round your answer to the nearest tenth.

Find the diameter of the sphere. Round your answer to the nearest tenth.

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8) Determine the diameter of a hemisphere whose volume is  $3,101.37$  cubic feet. Round your answer to the nearest tenth. (use  $\pi = 3.14$ )

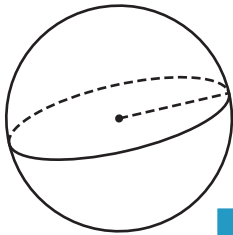
**Volume - Sphere and Hemisphere**

A) Find the indicated measure. Round your answer to the nearest tenth.  
(use  $\pi = 3.14$ )

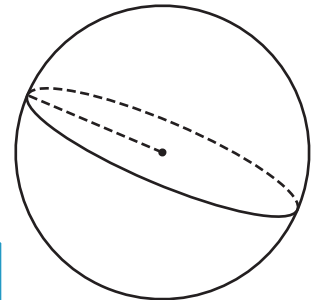
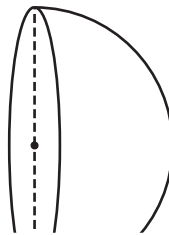
1) Volume =  $212.07 \text{ in}^3$

2) Volume =  $12,619.8 \text{ ft}^3$

3) Volume =  $39,329.26 \text{ yd}^3$



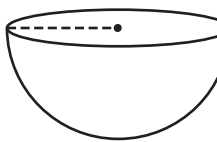
radius = 3.7 in



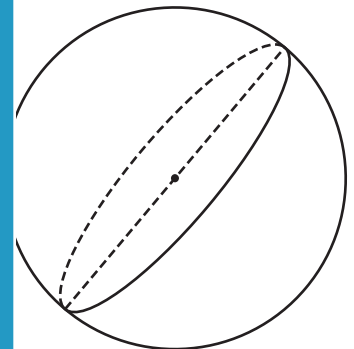
radius = 21.1 yd

4) Volume =  $408.43 \text{ yd}^3$

Volume =  $80,588.44 \text{ ft}^3$



radius = 5.8 yd



Diameter = 53.6 ft

7) The volume of a sphere is  $1,147.02 \text{ in}^3$ .  
Find the radius of the sphere. Round your  
answer to the nearest tenth.

**4.3 inches**

8) Determine the diameter of a hemisphere whose volume is  $3,101.37 \text{ cubic feet}$ . Round  
your answer to the nearest tenth. (use  $\pi = 3.14$ )

**22.8 feet**

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