

Name : _____

Volume - Sphere and Hemisphere

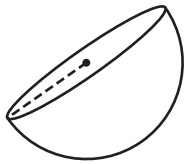
L152

A) Find the indicated measure. Round your answer to the nearest tenth.

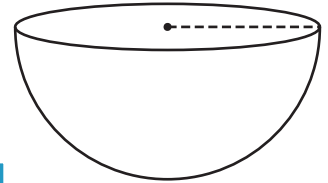
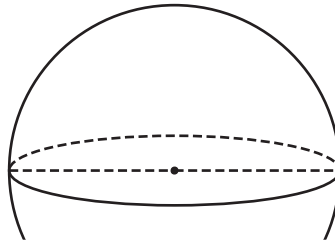
1) Volume = $5.33\pi \text{ ft}^3$

2) Volume = $972\pi \text{ yd}^3$

3) Volume = $8,111.33\pi \text{ in}^3$



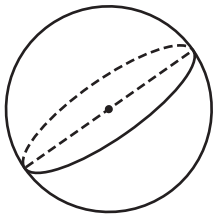
radius = _____



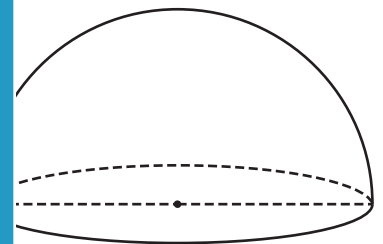
radius = _____

4) Volume = $1,774.67\pi$

Volume = $2,730.67\pi \text{ yd}^3$



diameter = _____



diameter = _____

7) The volume of a hemisphere is $1,774.67\pi$

Find the diameter of the hemisphere.

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8) Determine the diameter of a sphere whose volume is $9,145.33\pi$ cubic yards. Round your answer to the nearest tenth.

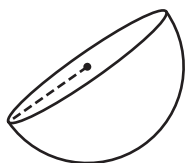
Volume - Sphere and Hemisphere

A) Find the indicated measure. Round your answer to the nearest tenth.

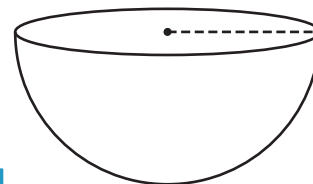
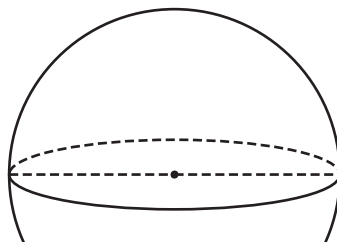
1) Volume = 5.33π ft³

2) Volume = 972π yd³

3) Volume = $8,111.33\pi$ in³



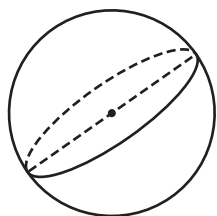
radius = 2 ft



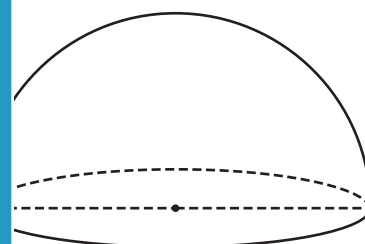
radius = 23 in

4) Volume = $1,774.67\pi$

Volume = $2,730.67\pi$ yd³



diameter = 22 in



diameter = 32 yd

7) The volume of a hemisphere is 288π cubic feet.

Find the diameter of the hemisphere.

6 feet

8) Determine the diameter of a sphere whose volume is $9,145.33\pi$ cubic yards. Round your answer to the nearest tenth.

38 yards

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