

Volume and Surface Area of a Sphere

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1. A sphere has a surface area of 484π cm^2 , what is its radius?

- A. 363 cm B. 121 cm
C. 11 cm D. 4 cm

2. The area of a great circle is 16π , what is the volume of the sphere?

- A. $\frac{256\pi}{3}$ B. 64π
C. $\frac{64\pi}{3}$ D. 256π

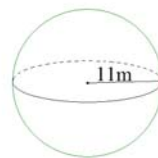
3. Find the surface area of a sphere that has a radius of 9 in.

4. Find the volume of a sphere with a diameter of 4 km.

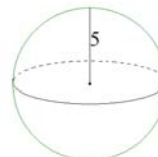
5. What is the surface area of a bouncy ball with a radius of 2.5 in?

6. Find the volume of a hemisphere if the area of the great circle is π units².

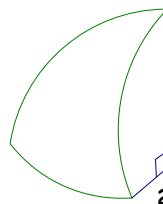
7. What is the surface area of the sphere below?



8. What is the volume of the sphere below?



9. What is the volume of the solid below?



10. Find the sphere's surface area if the area of its great circle is 34π m^2 .

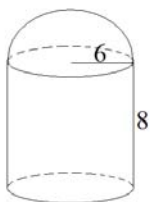
11. What is the radius, when a sphere has a surface area of 324π km^2 ?

12. What is the area of the great circle when the volume is 36π mi^3 ?

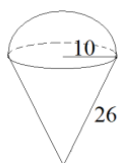
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13. What is the volume of the solid below?



14. What is the surface area of the solid below?



15. The diameter of a soccer ball is about 27 cm. Estimate the amount of leather used to cover the ball.