

# Surface Area Volume Of Spheres Quiz Or Worksheet With Answer Key - Corinne Math

This quiz or worksheet can be used to assess students' understanding of the surface area and volume of spheres. It includes 10 questions that cover a variety of topics, such as finding the surface area and volume of a sphere given its radius or diameter, and finding the radius or diameter of a sphere given its surface area or volume.



## Math 10: Surface Area & volume of Spheres, Quiz or Worksheet with Answer Key (Corinne's Math)

by George Roland Wills

★★★★★ 5 out of 5

Language : English  
File size : 475 KB  
Text-to-Speech : Enabled  
Enhanced typesetting : Enabled  
Print length : 4 pages  
Screen Reader : Supported



## Questions

1. Find the surface area of a sphere with a radius of 5 cm. 2. Find the volume of a sphere with a radius of 10 cm. 3. Find the radius of a sphere with a surface area of  $100\pi$  cm<sup>2</sup>. 4. Find the diameter of a sphere with a volume of  $500\pi$  cm<sup>3</sup>. 5. A spherical balloon has a surface area of  $36\pi$  cm<sup>2</sup>. What is its radius? 6. A spherical water drop has a volume of 1 cm<sup>3</sup>. What is its diameter? 7. A basketball has a diameter of 24 cm. What is its surface

area? 8. A soccer ball has a surface area of  $615.75 \text{ cm}^2$ . What is its volume? 9. A spherical planet has a volume of 1000 times the volume of Earth. What is the radius of the planet? (The radius of Earth is 6371 km.) 10. A spherical moon has a surface area of 100 times the surface area of Earth. What is the diameter of the moon? (The surface area of Earth is 510.1 million  $\text{km}^2$ .)

## Answer Key

1.  $100\pi \text{ cm}^2$  2.  $\frac{4}{3}\pi(1000) \text{ cm}^3 = 4188.79 \text{ cm}^3$  3. 5 cm 4. 10 cm 5. 3 cm 6. 1.24 cm 7.  $452.39 \text{ cm}^2$  8.  $2000 \text{ cm}^3$  9. 3185.5 km 10. 12755 km



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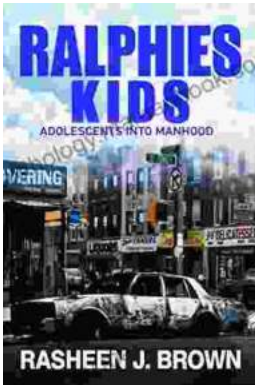
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