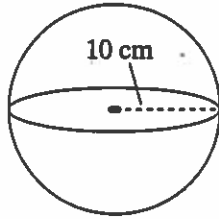


Practice 8-8

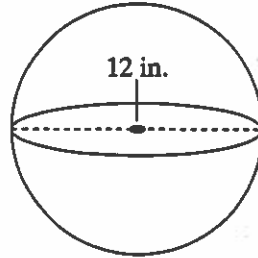
Spheres

Find each sphere's surface area and volume to the nearest whole number.

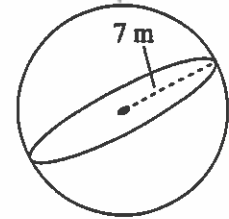
1.



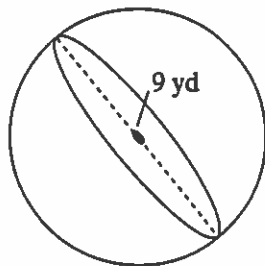
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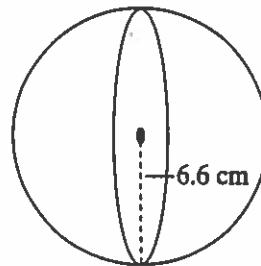
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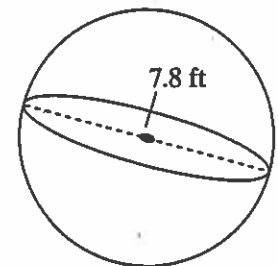
4.



5.



6.



7. A sphere has a radius of 9 ft. Find its surface area to the nearest whole square unit.

8. A geography professor has a spherical globe with a diameter of 14 in. What is the volume of the globe?

9. Jenny has four marbles that are all of different sizes and colors. They have diameters of 18 mm, 19 mm, 21 mm, and 24 mm. What is the average surface area of the four marbles?

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Puzzle 8-8

Spheres

Earth has a diameter of approximately 7,909 miles. Find out some interesting facts about the surface we live on by answering the questions below. Assume that Earth is a sphere. Round to the nearest whole number. (Use 3.14 for π .)

Check your work by entering your answers in the puzzle.

1. The surface area of Earth is _____.
2. If 80% of Earth's surface is covered with material of volcanic origin, how many square miles is that? _____
3. What percent of Earth's surface is desert if 6,879,000 square miles are desert? _____
4. About 75% of Earth is covered in water. How many square miles is that? _____
5. Ice covers 56,960,107 square miles of Earth's surface. What is the percent covered by ice? _____
6. Rainforest covers 2% of the earth's surface. How many square miles are rainforest? _____

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