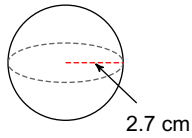


Unit 8.5 Surface area and Volume of Spheres PRACTICE

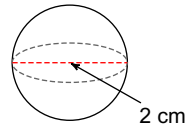
Find the surface area of each figure. Round your answers to the nearest tenth, if necessary.

1)



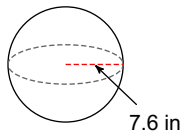
$$91.6 \text{ cm}^2$$

2)



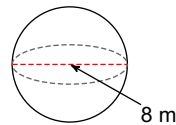
$$12.6 \text{ cm}^2$$

3)



$$725.8 \text{ in}^2$$

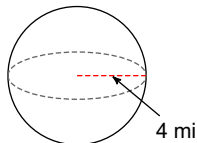
4)



$$201.1 \text{ m}^2$$

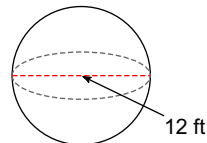
Find the surface area of each figure. Round your answers to the nearest tenth, if necessary. Leave your answers in terms of π for answers that contain π .

5)



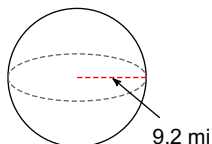
$$64\pi \text{ mi}^2$$

6)



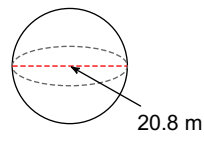
$$144\pi \text{ ft}^2$$

7)



$$338.6\pi \text{ mi}^2$$

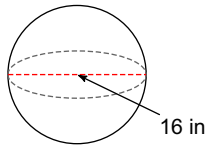
8)



$$432.6\pi \text{ m}^2$$

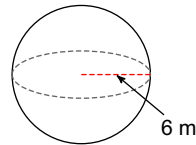
Find the volume of each figure. Round your answers to the nearest tenth, if necessary.

9)



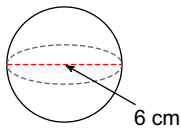
$$2144.7 \text{ in}^3$$

10)



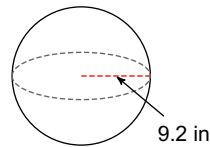
$$904.8 \text{ m}^3$$

11)



$$113.1 \text{ cm}^3$$

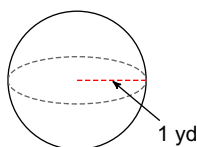
12)



$$3261.8 \text{ in}^3$$

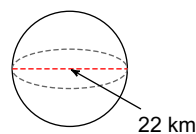
Find the volume of each figure. Round your answers to the nearest tenth, if necessary. Leave your answers in terms of π for answers that contain π .

13)



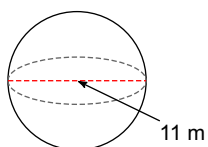
$$1.3\pi \text{ yd}^3$$

14)



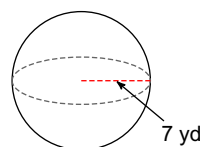
$$1774.7\pi \text{ km}^3$$

15)



$$221.8\pi \text{ m}^3$$

16)



$$457.3\pi \text{ yd}^3$$