Name	Hour

Math 8 Worksheet 8.3a

Volume of Spheres	
1. What is the formula for finding the volume of a sphere?	1
Find the volume of a sphere with the given dimensions. Round all answers to the nearest tenth. Include units in each answer.	
2. r = 8 in.	2
3. r = 11.3 cm.	3
4. d = 12 m.	4
5. What is the formula for finding the volume of a hemisphere?	5
Find the volume of a hemisphere with the given dimensions. Round all answers to the nearest tenth. Include units in each answer.	
6. r = 9 yd.	6
7. d = 7.4 km.	7
8. A volleyball has a diameter of 10 inches. Find the volume of the ball.	8
9. Paul is filling 4 identical bowls with soup. If each bowl has a diameter of 6 ½ inches, what is the total volume of soup needed to fill the bowls?	9
10. A snowball has a diameter of 6 cm. How long will it take the snowball to melt if it melts at a rate of 1.8 cm³ per minute?	10.