Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Core: \_\_\_\_\_\_\_\_

Volume of Spheres Exit Pass

Directions: Solve each problem. Use the π key on your calculator for pi. If you do not have a π key on your calculator then use 3.14. Round all of your answers to the nearest ***tenth***.

1. What is the ***approximate*** volume of a spherical ball with a diameter of 6.7 cm?
2. Tina made a model of the moon for her science class. She used a sphere with a radius of 7 cm. What was the ***approximate*** volume of the sphere?
3. A spherical ball of solid chocolate has a diameter of 1.6 inches. What is the ***approximate*** volume of the chocolate?
4. John and Alex got gumballs from a machine.
* John’s gumball has a diameter of 1.5 cm
* Alex’s gumball has a radius of 1 cm

Which statement is true?

1. Alex’s gumball is about 4.2 cm3 larger than John’s gumball.
2. Alex’s gumball is about 2.4 cm3 larger than John’s gumball.
3. John’s gumball is about 4.2 cm3 larger than Alex’s gumball.
4. John’s gumball is about 2.4 cm3 larger than Alex’s gumball.

ANSWER KEY:

1. 157.5 cm3

2. 1,436.8 cm3

3. 2.1 in3

4. B