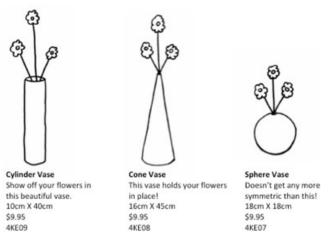
P.S. #7.2 - 3D Geometry Day 2

Name:		Class:
1.)	If we assume the Earth is a perfect sphere and we know Earth in scientific notation?	the radius is 4.0×10^3 miles, what is the volume of the
2.)	If the current radius of the Sun is 4.3×10^5 mi, what is to the Sun is 4.3×10^5 mi, what is to the Sun is 4.3×10^5 mi, what is to the Sun is 4.3×10^5 mi, what is to the Sun is 4.3×10^5 mi, what is to the Sun is 4.3×10^5 mi, what is to the Sun is 4.3×10^5 mi, what is to the Sun is 4.3×10^5 mi, what is to the Sun is 4.3×10^5 mi, what is to the Sun is 4.3×10^5 mi, what is to the Sun is 4.3×10^5 mi, what is to the Sun is 4.3×10^5 mi, what is the Sun is 4.3×10^5 mi, what is the Sun is 4.3×10^5 mi, what is the Sun is 4.3×10^5 mi, what is the Sun is 4.3×10^5 mi, what is 4.3×10^5 mi, where 4.3×10^5 mi, wher	he volume of the Sun in scientific notation?
3.)	How much larger is the volume of the Sun than the volu	me of the Earth?
4.)	The salmonella bacteria are rod shaped. One has a radi the volume of a single bacterium?	us of 1.5×10^{-4} in and a length of 2.0×10^{-4} in. What is
5.)	The bacterium that causes strep throat is a type of coccubacterium is 5.0×10^{-4} mm. What is the volume of a sin	

6.) My sister's birthday is in a few weeks and I would like to buy her a new vase to keep fresh flowers in her house. She often forgets to water her flowers, so she needs a vase that holds a lot of water. In a catalog, there are three vases available and I want to purchase the one with the most water. The first vase is a cylinder with diameter 10 cm and height 40 cm. The second vase is a cone with base diameter of 16 cm and a height of 45 cm. The third vase is a sphere with a diameter of 18 cm.



a.) Which vase should I purchase?

b.) How much more water does the largest vase hold than the smallest vase as an exact answer.

c.) Suppose the diameter of each vase decreases by 2 cm. Which vase would hold the most water?