

Name _____

Date _____ Period _____

Math 8 - Measurement

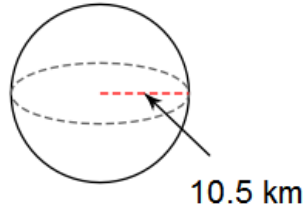
Volume of Spheres

$$V = \frac{4}{3} \pi r^3$$

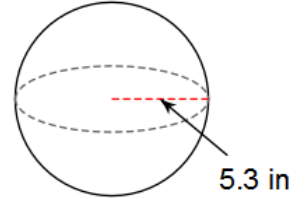
Independent Practice for *Volume of Spheres* Lesson

Directions – Work on this page or your own piece of paper to answer each of the following. **Use ESA.**

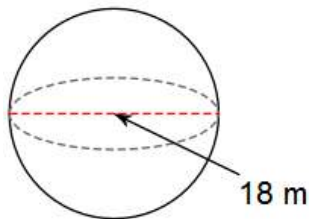
- 1) Calculate the volume and round your answer to the nearest tenths place.



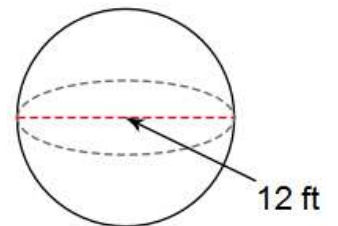
- 2) Calculate the volume and round your answer to the nearest tenths place.



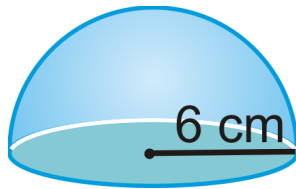
- 3) Calculate the volume and write your answer in terms of π .



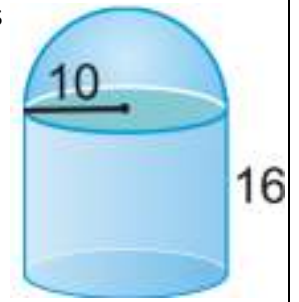
- 4) Calculate the volume and write your answer in terms of π .



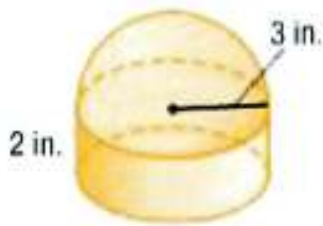
5) Calculate the volume and round your answer to the nearest tenths place.



6) Calculate the total volume and round your answer to the nearest tenths



7) Calculate the total volume and write your answer in **terms of π** .



8) A tennis ball fits perfectly in a cylindrical can. If the ball touches the top, bottom and side of the can, calculate the volume of the empty space in the can. Write your answer in **terms of π** . (Hint – subtract)

