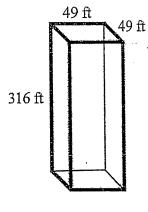
## Hand In - Volume

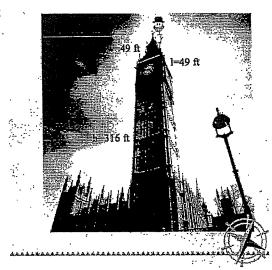
	•		
Name:		Total:	/18
isdille.		TOLUIT.	

Mr. Shuhyta went on vacation with his family. Calculate the volume of the various structures that we visited (all dimensions are real). You MUST write out a **FORMULA** for each and round to two decimal places:

1. Big Ben (Rectangular Prism)

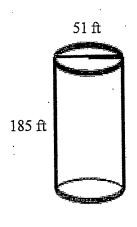
BIG BEN
Constructed 1288

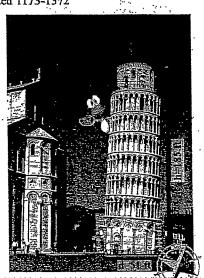




2. Tower of Pisa (Cylinder)

TOWER OF PISA Constructed 1173-1372





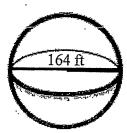
/2 .

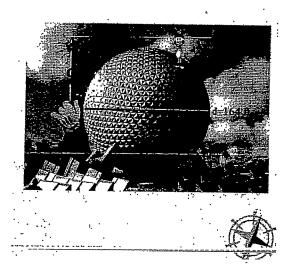
/2

/2

3. Epcot (Sphere)

SPACESHIP EARTH - EPCOT Constructed 1982

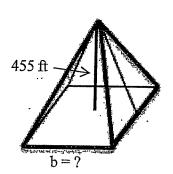


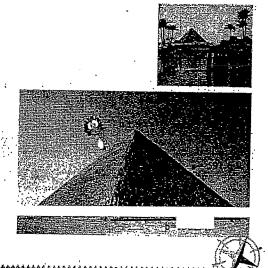


**WORK BACKWARDS** to calculate the missing measurements on the next two objects. You MUST write out a **FORMULA** for each and round to two decimal places:

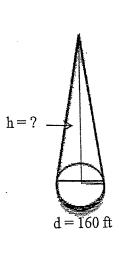
4. Pyramid of Giza (Pyramid). If the volume is 86 728 830.07 ft<sup>3</sup>. Calculate the base.

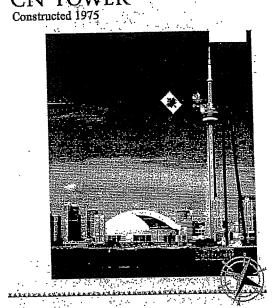
PYRAMID OF GIZA
Constructed 2560 BC





5. CN Tower (Cone). If the volume is 12 166 927.58 ft<sup>3</sup>. Calculate the height.





**WORD PROBLEMS:** For the following questions, please include all elements for a proper solution (formula, units, sentence, diagram, etc.).

- 6. While at Disney World Dawson got thirsty. He bought a can of pepsi. The dimensions of this cylinder were 20 cm tall with a diameter of 15 cm.
  - a. Calculate the total volume.

b. Convert the volume to litres.  $1 L = 1000 \text{ cm}^3$ 

/3

- 7. While in Egypt, Mr. Shuhyta bought a souvenir miniature pyramid. The base is 4 cm and the height is 6 cm.
  - c. Calculate the total volume.

d. Convert the volume to in<sup>3</sup>. *Hint: Use your conversion chart.* 

/1

/3