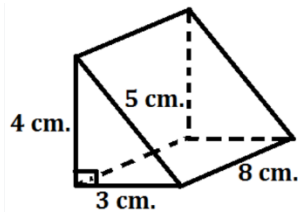


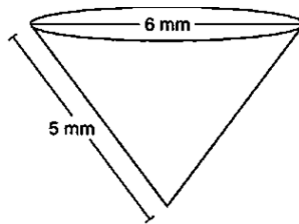
Name \_\_\_\_\_ Group \_\_\_\_\_

**Volume, Missing Measures, and Unit Conversion Assignment**

1. Calculate the volume of the solid below:

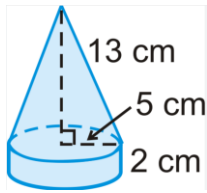


2. Calculate the volume of the solid below:

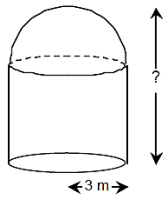


3. Calculate the volume of a sphere with a radius of 7 m.

4. Determine the volume of the composite solid below.



5. The volume of the solid below is  $226 \text{ m}^3$ . Determine the total height of the solid, in cm.



6. A hemisphere is placed on top of a cone. They both have a diameter of 3.5 cm. The object has a total area of  $198.158 \text{ cm}^2$ . What is the total volume of the object?

7. Rank the volumes in order from smallest to largest:

$53 \text{ cm}^3$      $81 \text{ mL}$      $0.73 \text{ L}$      $0.0005 \text{ hL}$

8. A water tank is in the shape of a trapezoidal prism with a rectangular-based pyramid on top, as shown in the diagram below.

The water tank is currently completely empty. You can fill the water tank at a rate of 25 L per minute.

If you only want to fill the water tank half-way, how many hours will it take?

