

Name: _____

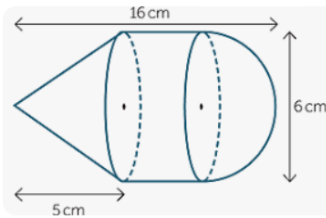
Period: _____

- 1) A cone-shaped water cup has a diameter of 20 cm and an altitude of 4 cm. What is the volume of water that will fill the cup to HALF of its capacity?

- 2) The ornament below is composed of two congruent square pyramids. Each square pyramid has base side lengths of 6 inches and a height of 4 inches.



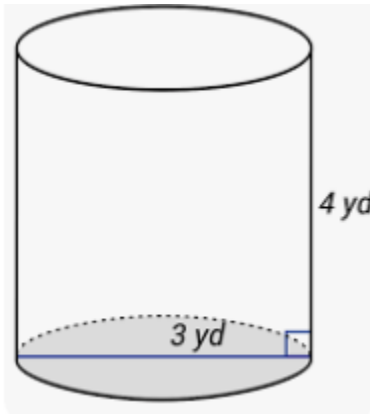
- 3) Find the volume of the shape below:



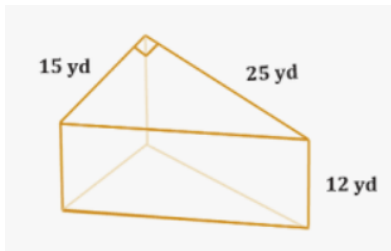
- 4) A sphere has a radius $r = 7$ inches. What is its approximate volume?

- 5) Calculate the volume of a square-based pyramid with an altitude height of 5 ft and base edges of 11 ft.

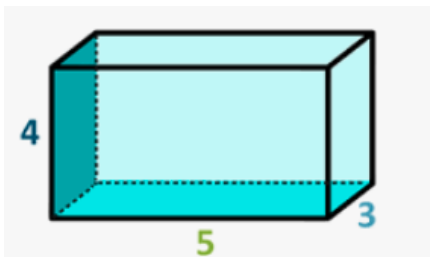
- 6) Calculate the volume of the cylinder:



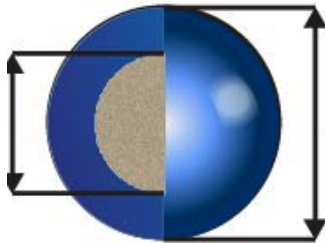
- 7) Find the volume of a right triangular prism given the measures in the diagram.



- 8) Find the volume of the rectangular prism below.



- 9) A manufacturer is designing a new type of bowling ball. The bowling ball will have a weighted spherical core and a lighter outer layer of plastic around the core.



The diameter of the entire bowling ball is 8.6 inches. The diameter of the weighted core is 5.66 inches. What is the volume of plastic the manufacturer will need to create the outer layer of the bowling ball?

- 10) Danny is building a pyramid modeled after one of the Great Pyramids of Giza in Egypt. The Great Pyramid has a height of 264 feet and a square base with a side measuring 372 feet. If Danny builds the pyramid to one-eightieth the size, what will the volume be for his pyramid? (Round all numbers to the nearest tenth.)