Mr. Powder AR 10

**Directions:** Find the volume of each solid. Round to the nearest tenth if necessary. Remember, you MUST also state the formula, show the substitution, and Show all work. !



5. What is the surface area of a cone with a radius of 3 meters and a slant height of 4 meters? Round to the nearest tenth.

6. A can of juice is 6 inches high, and its base has a diameter of 4 inches. What is the volume of the can? Round to the nearest tenth.

7. The storage tank shown at the right is to be painted. What is the area of the surface to be painted? Assume that the bottom does not need painting. Round to the nearest whole number.



8. The popcorn containers at a movie theater are in the shape of cones. Suppose a popcorn container has a radius of 6 inches and a slant height of 12 inches. What is the lateral area of the popcorn container rounded to the nearest inch?

9. Find the surface area of the composite shape. Round to the nearest tenth.



10. Find the volume of the composite shape. Round to the nearest tenth.

