### Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Volume of Composite Solids**

**Find the volume of each of the following composite functions.**

 

 

 



*open hemisphere*

**Tennis balls with a 3 inch diameter are sold in cans of three. The can is a cylinder.**

1. What is the volume of one tennis ball?
2. What is the volume of the cylinder?
3. How much space is not occupied by the tennis balls in the can?

**One hot day at a fair you buy yourself a snow cone. The**

**height of the cone shaped container is 5 in and its radius**

 **is 2 in. The shave ice is perfectly rounded on top forming**

**a hemisphere.**

1. What is the volume of the ice in your frozen treat?

**The volume of one ball is 288π in.3**

1. What is the radius of the ball?
2. If 4 of the balls were stacked on top of each other, how tall would the stack be?