

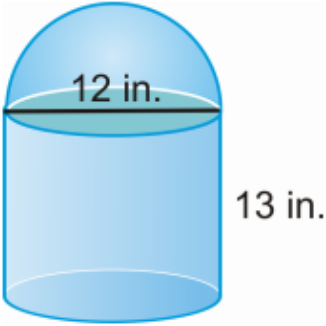
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**Day 6 – Composite Solids**

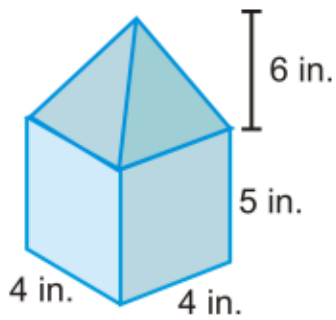
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Find the volume of each of the following composite solids.

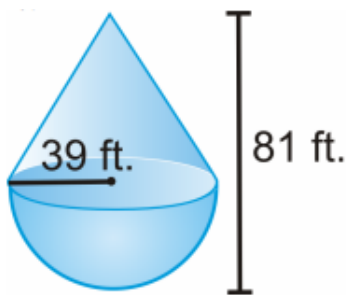
1.



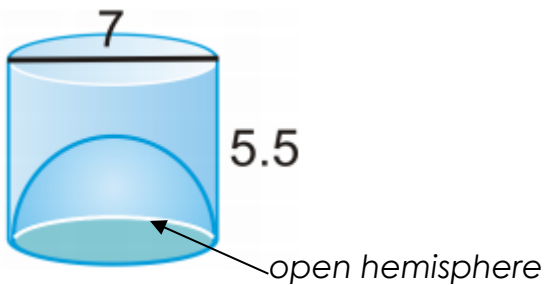
2.



3.



4.



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

5. What is the volume of one tennis ball?
6. What is the volume of the cylinder?
7. How much space is not occupied by the tennis balls in the can?



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**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.**

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



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**The volume of one ball is  $288\pi$  in.<sup>3</sup>**

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