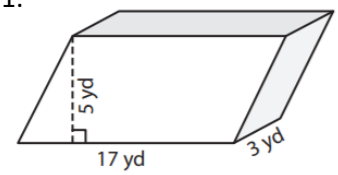
Math 9: Unit 4 – Measurement Name:_____

Calculate the volumes of all the figures below. Use the knowledge that you have!!!

1.



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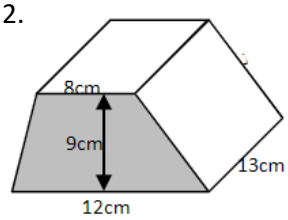

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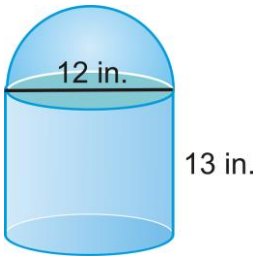
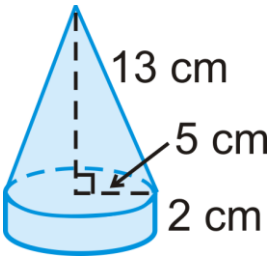


4.



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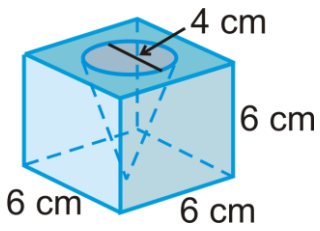
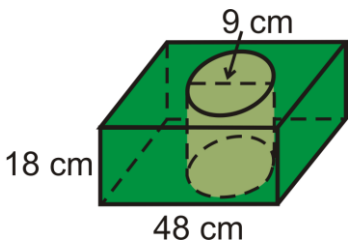


6. Square based box with a cylindrical hole.



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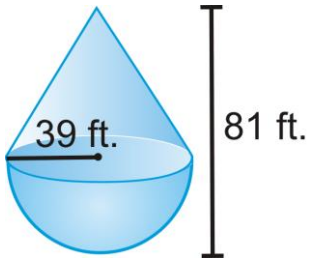
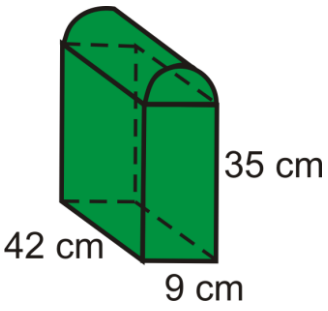


8.

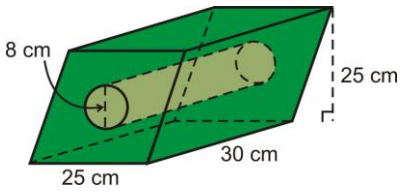


9. Tennis balls with a 3 inch diameter are sold in cans of three. The can is a cylinder. Assume the balls touch the can on the sides, top and bottom.

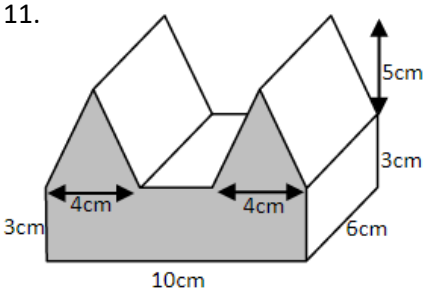
a) What is the volume of one tennis ball?

b) What is the volume of the space not occupied by the tennis balls?

10. Cut out the cylinder.

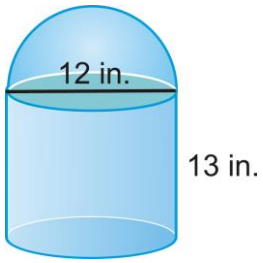


11.

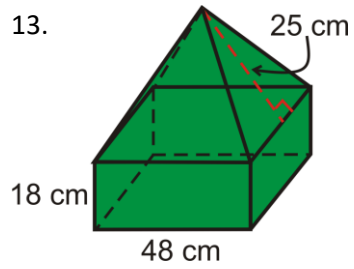


Find the surface area of each figure. Careful with the formulas as not all parts need to be covered….

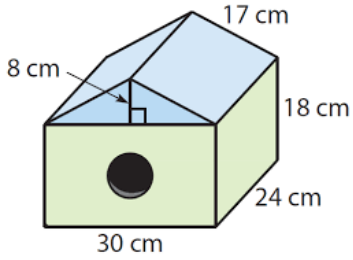
12.



13.



14. Hole is only on one side, with diameter of 8 cm.



15.