

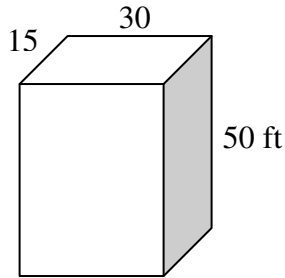
Practice Worksheet for Lesson 12-1

Name:

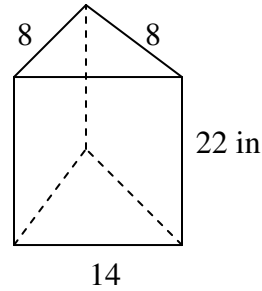
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Find the LA, TA, and V of each shape. Show all work and be sure to label all answers.

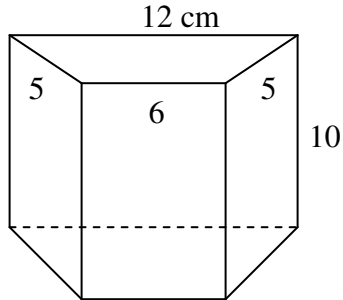
1)



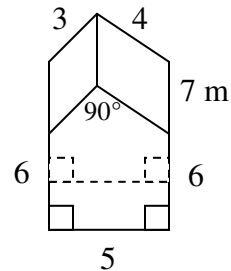
2)



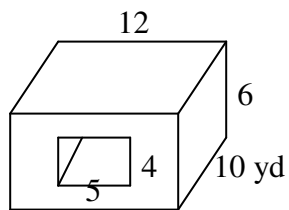
3)



4) hints: 1) the bottom of the right triangular prism and the top of the rectangular prism are not on the surface so they should not be included in LA or TA 2) find the volume of top and bottom separately, then add to get total volume.



5) Find the volume given that the center of the prism is removed to leave a hole. Hint: find the volume of the large prism, find the volume of the small prism, and subtract those volumes.



6) If the edge of a cube is doubled, the total area is multiplied by _____ and the volume is multiplied by _____

Hint: try out a cube of any length by finding its TA and V then double the side and find the new cubes TA and V to solve.