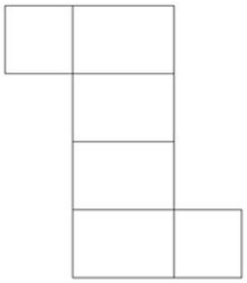
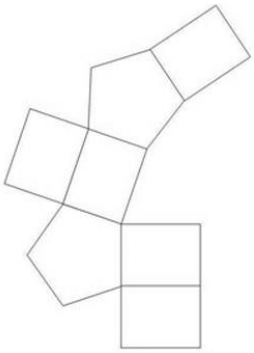
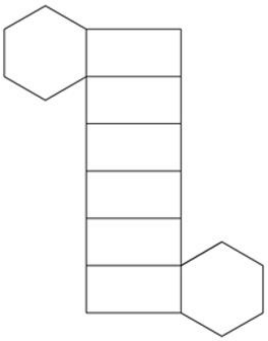
WORKSHEET 10-3 LAB Name _____ Due _____ Section_____

1. Identify the right regular prism that could be made from each of the following nets:







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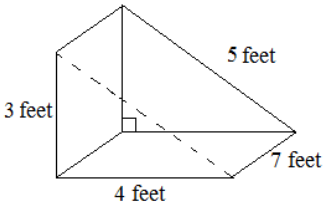
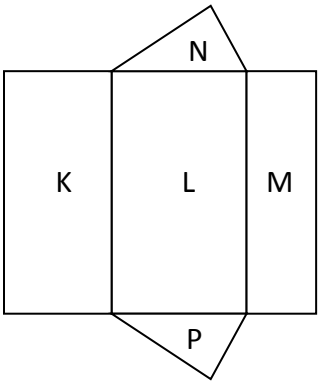
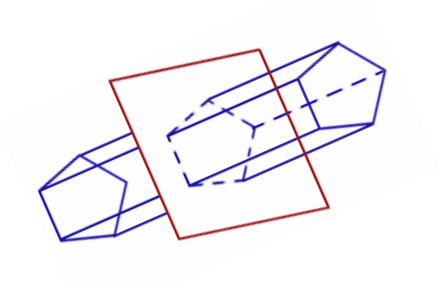
2. Draw a net for the following right prism:



3. Which can be a true statement about the triangular prism whose net is shown?
   a. Faces L and M are perpendicular
   b. Faces N and P are perpendicular
   c. Faces K and L are parallel
   d. Faces N and P are parallel



4. Describe the slice/cross section formed by the intersection of the plane with each prism:



Plane is parallel to bases

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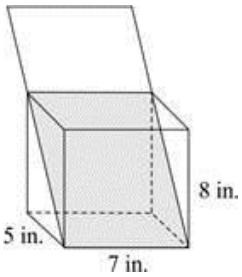

Plane is through 2 lateral edges

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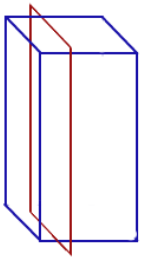

Plane is ⊥ to square bases

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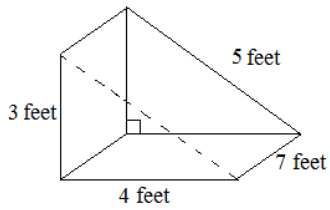
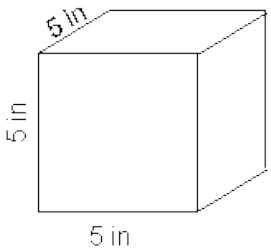
5. Which of the following could NOT be the shape of a slice of a prism?
    a. Parallelogram
    b. Circle
    c. Triangle
    d. Hexagon

6. Determine the volume of each of the following right prisms to the nearest whole cubic inch.

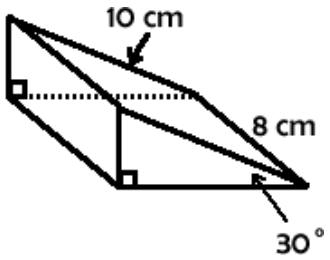
a)

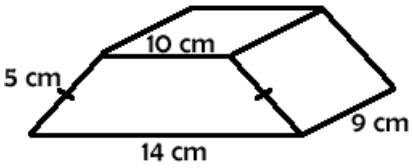


b)

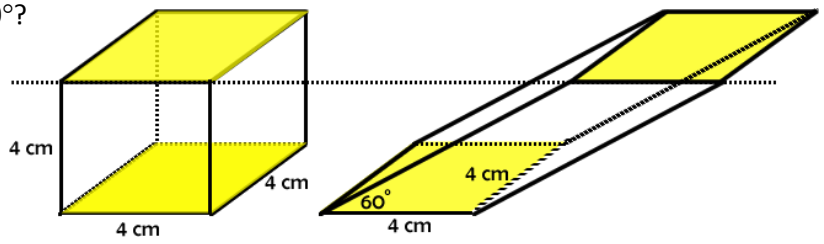


7. Determine the volume of each of the following prisms to the nearest tenth. First solve for the missing dimension.
    a. Right Triangular Prism
    b. Right Trapezoidal Prism

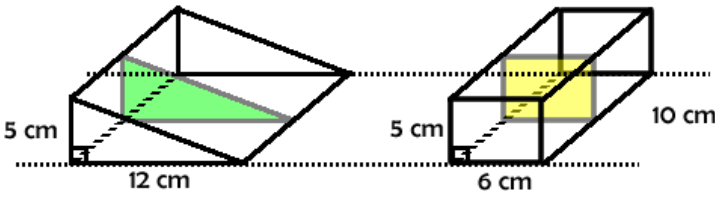




8. If the volume of the cube is (4)(4)(4) = 64 cm^3, what is the volume of the oblique square prism if it has been tilted at 60°?



9. Jenny says that the two prisms DO NOT have the same volume because the cross sections are not the same. Renee disagrees; she says that it isn't the shape that has to be the same but rather the area so Renee thinks they have the same volume. Who is right and why?



10.