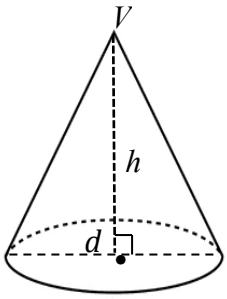
Name _____ Date_____

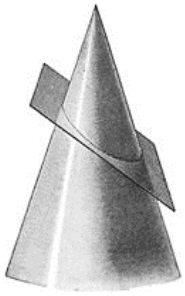


Use the cone with height, h, vertex, V, and diameter, d, to answer questions 1 and 2.

1. Sketch the two-dimensional plane figure that results from making a vertical slice, perpendicular to the base, through the vertex, V. Describe how the dimensions of the cross-section compare to the dimensions of the cone.

2. Sketch the two-dimensional plane figure that results from making a horizontal slice, parallel to the base. Describe how the dimensions of the cross-section compare to the dimensions of the cone.

3. Sketch the two-dimensional plane figure that results from making an oblique slice, as shown in the picture below. Describe how the shape of the cross-section compares to the shape of the base.



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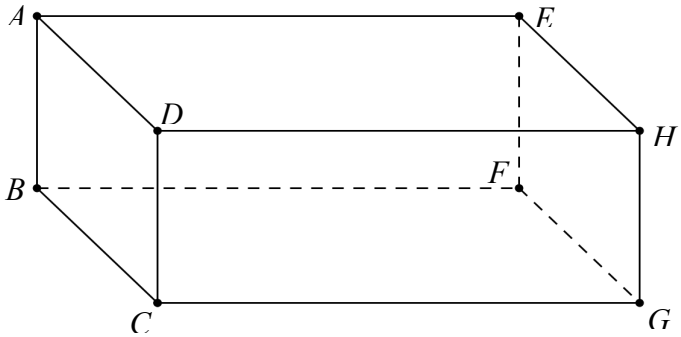
The figure shown to the right is a right rectangular prism.



1. Sketch the two-dimensional plane figure that results from making a horizontal slice, parallel to base *BCGF*. Describe how the dimensions of the cross-section compare to the dimensions of the prism.

2. Sketch the two-dimensional plane figure that results from making a vertical slice, perpendicular to base *BCGF*. Describe how the dimensions of the cross-section compare to the dimensions of the prism.

3. Sketch the two-dimensional plane figure that results from making a vertical slice, through diagonal $\overline{AH}$, perpendicular to base *BCGF*. Describe how the dimensions of the cross-section compare to the dimensions of the prism.