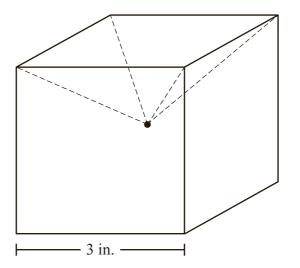


A wooden cube with an edge length of 3 inches is composed of six congruent right square pyramids. The cube and one of the pyramids is shown in the diagram below.



- a. What is the volume, in cubic inches, of the entire cube? Show or explain how you got your answer.
- b. What is the volume, in cubic inches, of one of the six pyramids? Show or explain how you got your answer.
- c. What is the total surface area, in square inches, of the cube? Show or explain how you got your answer.
- d. What is the total surface area, to the nearest square inch, of one of the six pyramids? Show or explain how you got your answer.