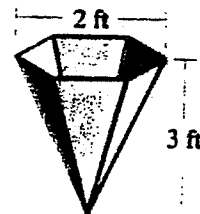


Geometry (H)

Section — Pyramids *Practice #2*

Name: _____

1. A regular pyramid with a square base 16 cm on a side has a slant height of 17 cm. What is the volume of the pyramid?
2. A pyramid has a volume of 48 cm^3 and a base area of 14 cm^2 . Find its height.
3. Find the height of a pyramid if its volume is 2500 cm^3 and the base is an equilateral triangle 15 cm on a side.
4. Find the slant height and volume of a regular hexagonal pyramid with base-edge length 6 cm and lateral area 198 cm^2 .
5. Two square pyramids have equal heights. The edge of a side of one base is 3 and of the other base is 2. How do their volumes compare?
6. Find the volume of a pyramid whose height is 14 cm and whose base is a rhombus with diagonals 6 cm and 8 cm.
7. The base of one pyramid is a rectangle with sides 5 cm and 8 cm long and the base of another pyramid is a square with sides 6 cm long. If the volumes of the two pyramids are equal, compare their heights.
8. All the edges of a square pyramid are 8 cm long. Find the volume of the pyramid.
9. Find the total area of a regular square pyramid with slant height 7 in, if its lateral area is 70 in^2 .
10. A larger container shaped like a regular hexagonal pyramid has an open top. If one hundred of these containers are to be painted, both inside and out, with a paint that covers 450 sq ft per gallon, how many gallons of paint must be purchased.



11. The total area of a regular square pyramid is 48 cm^2 . If the slant height is equal to the base-edge length, find the area of the base.