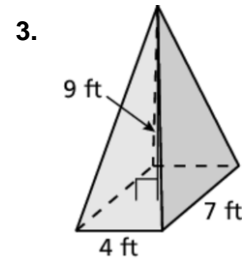
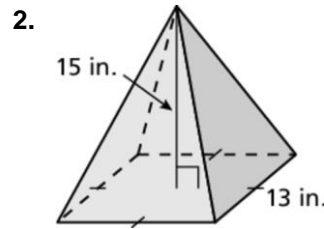
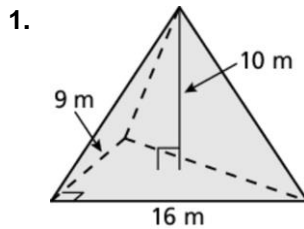


11.6 Volume of Pyramids & Cones CYU

Use when you get it right all by yourself
S Use when you did it all by yourself, but made a silly mistake
H Use when you could do it alone with a little help from teacher or peer
G Use when you completed the problem in a group
X Use when a question was attempted but wrong (get help)
N Use when a question was not even attempted

| CONCEPTS | BASIC | INTERMEDIATE | ADVANCED |
|-----------------------------|--------|--------------|----------|
| Volume of pyramids | 1 - 3 | 4 - 6 | |
| Volume of cones | 15, 16 | | |
| Similar figures | 7, 8 | 17, 18 | |
| Volume of composite figures | | 9 - 11 | 12 - 13 |
| Real World Application | | | 14 |

Find the volume of the pyramids. Show your set up and work to get full credit. Don't forget appropriate units.



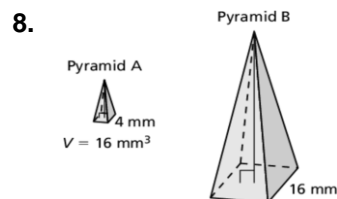
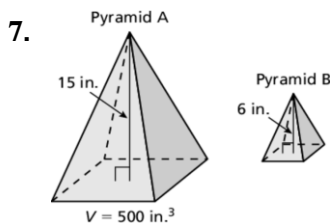
Find the indicated measure. Show your set up and work to get full credit. Think about the appropriate units. Sketch a diagram for each problem.

4. A pyramid with a square base has a volume of 320 cubic centimeters and a height of 15 centimeters. Find the side length of the square base.

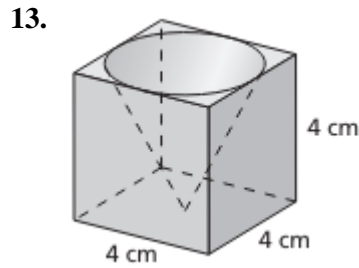
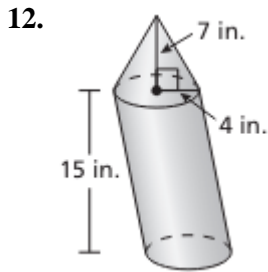
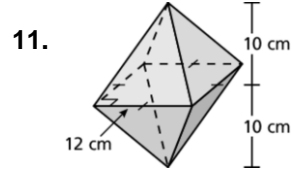
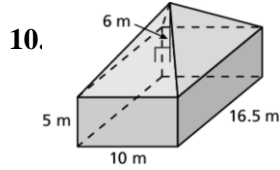
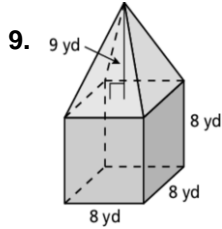
5. A pyramid with a rectangular base has a volume of 60 cubic feet and a height of 6 feet. The width of the rectangular base is 4 feet. Find the length of the rectangular base.

6. A pyramid with a triangular base has a volume of 80 cubic meters and a base area of 20 square meters. Find the height of the pyramid.

The pyramids are similar. Find the volume of Pyramid B.

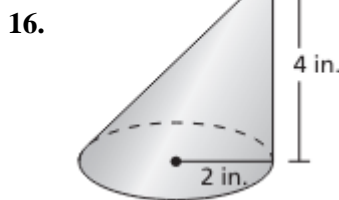
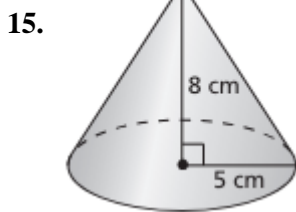


Find the volume of the composite solid.

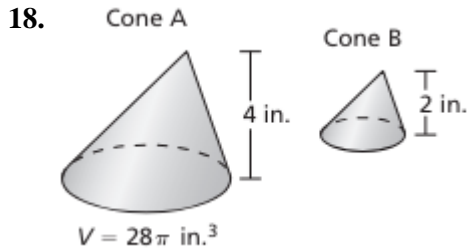
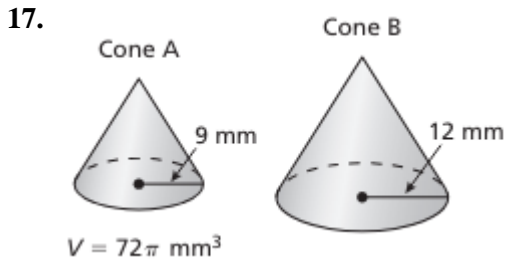


14. The Pyramid Arena in Memphis, Tennessee is about 98 meters tall and has a square base with a side length of about 180 meters. A prism-shaped building has the same square base as the Pyramid Arena. What is the height of the building if it has the same volume as the Pyramid Arena? (HINT: draw a diagram)

Find the volume of the cone. Show your set up and work to get full credit. Don't forget appropriate units.



The cones are similar. Find the volume of Cone B.



CYU Reflection: How far can you go: basic, intermediate, or advanced?

Rate your mastery level!

How confident are you with the skills this CYU covered? Circle the score you would give yourself.

● ● ● ● ● ● ●

| | | | | | | | |
|-------|---|--------------|---|---|----------|---|-------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Basic | | Intermediate | | | Advanced | | Solved ALL! |

