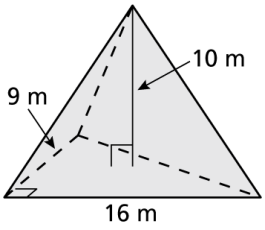
Name _____ Date _____

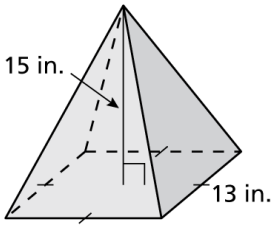
11.6 Practice A

In Exercises 1–3, find the volume of the pyramid.

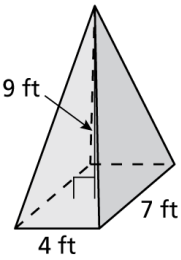
1.



2.



3.



In Exercises 4–6, find the indicated measure.

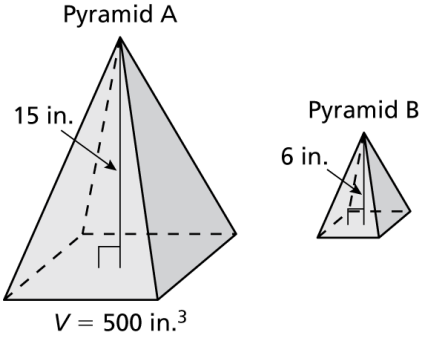
4. A pyramid with a square base has a volume of 320 cubic centimeters and a height of 15 centimeters. Find the side length of the square base.

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.

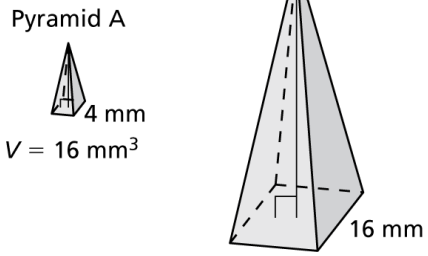
6. A pyramid with a triangular base has a volume of 80 cubic meters and a base area of 20 square meters. Find the height of the pyramid.

In Exercises 7 and 8, the pyramids are similar. Find the volume of Pyramid B.

7.

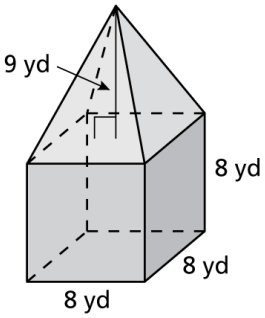


8.

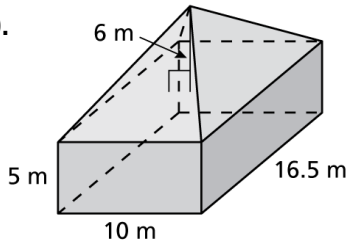


In Exercises 9–11, find the volume of the composite solid.

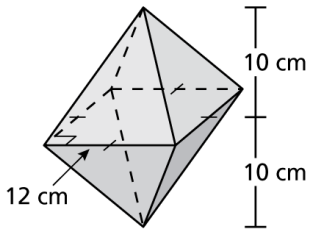
9.



10.



11.



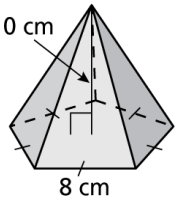
12. The Pyramid Arena in Memphis, Tennessee is about 98 meters tall and has a square base with a side length of about 180 meters. A prism-shaped building has the same square base as the Pyramid Arena. What is the height of the building if it has the same volume as the Pyramid Arena?

Name_____ Date _____

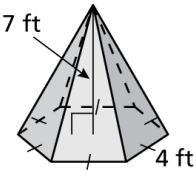
11.6 Practice B

In Exercises 1–3, find the volume of the pyramid.

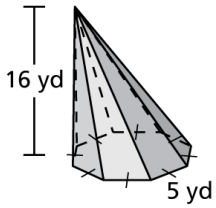
1.



2.



3.



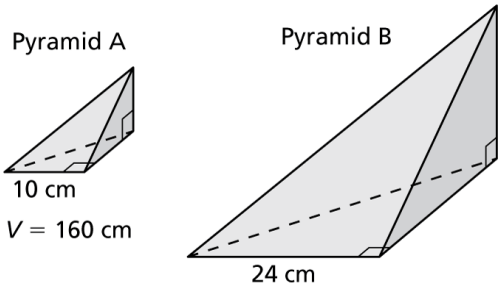
In Exercises 4 and 5, find the indicated measure.

4. A pyramid with a square base has a volume of 119.07 cubic meters and a height of 9 meters. Find the side length of the square base.

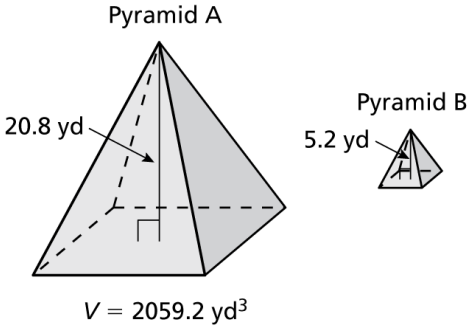
5. A pyramid with a hexagonal base has a volume of about 1082.54 cubic inches and a base area of about 259.81 square inches. Find the height of the pyramid.

In Exercises 6 and 7, the pyramids are similar. Find the volume of Pyramid B.

6.

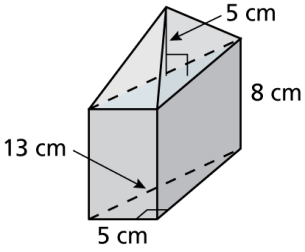


7.



In Exercises 8–10, find the volume of the composite solid.

8.



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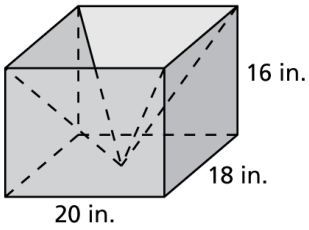

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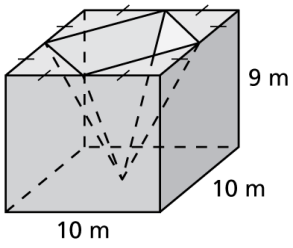

11. The volume of the pyramid shown is $48\sqrt{3}$ cubic meters. Find the value of x.