NAME _____ DATE _____ PERIOD _____

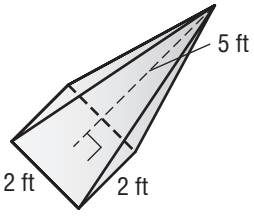
8-1 E

Homework Practice

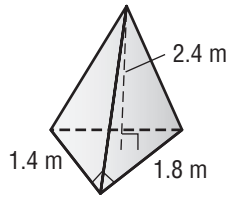
Volume of Pyramids

Find the volume of each pyramid. Round to the nearest tenth if necessary.

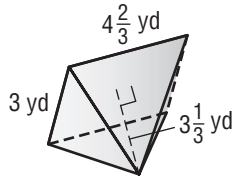
1.



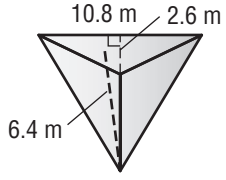
2.



3.



4.



Find the height of each pyramid.

5. square base with edge 15 feet and volume 1,350 cubic feet

6. triangular base with base edge 12 inches and base height 9 inches, and volume 108 cubic inches

7. GREAT PYRAMID The Great Pyramid has a height of about 480.7 feet and base sides about 756 feet. The base is almost square. Find the volume of this pyramid.

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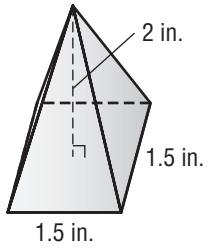
NAME _____ DATE _____ PERIOD _____

8-1 E

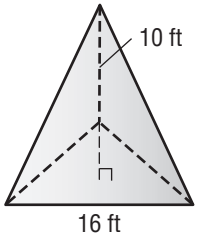
Problem-Solving Practice

Volume of Pyramids

1. SOUVENIRS On a trip to Oregon, Sabrina bought a small stone in the shape of a square pyramid as a souvenir. Find the volume of the stone. Round to the nearest tenth.

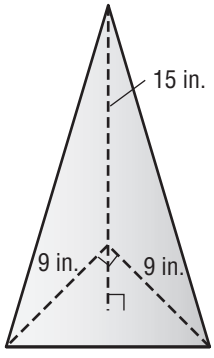


2. ART An artist created a statue in the shape of a triangular pyramid. The triangular base has a height of 9 feet. Find the volume of the statue. Round to the nearest tenth.

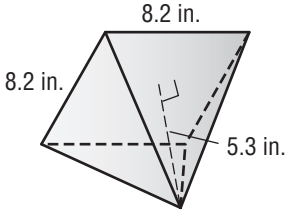


3. GATE POST The top of a gate post is in the shape of a square pyramid. The height of the pyramid is 5 inches and each side of the base is 7.4 inches. Find the volume of wood needed to make the top of the gate post. Round to the nearest tenth.

4. DISPLAY STAND A glass stand to display a doll is in the shape of a right triangular pyramid as shown. Find the volume. Round to the nearest tenth.



5. COAL A piece of coal is in the shape of a square pyramid. Find the volume. Round to the nearest tenth.



6. ART PROJECT An art class builds a square pyramid with sides 12 feet wide. The pyramid is 17 feet high. Each student in the school deposits a colored cube with side length of 1 feet into the pyramid. To the nearest hundred, about how many students are in the school?