

NAME _____

Module 13 Perimeter, Area, and Volume

Lesson 7 Volume: Pyramids and Cones

Challenge Problems

13.7

Set 1

1

Explain how you can find the radius of a cone with a volume of 942 cubic inches and a height of nine inches.

2

Explain what happens to a cone's volume when its radius is doubled but its height remains the same.

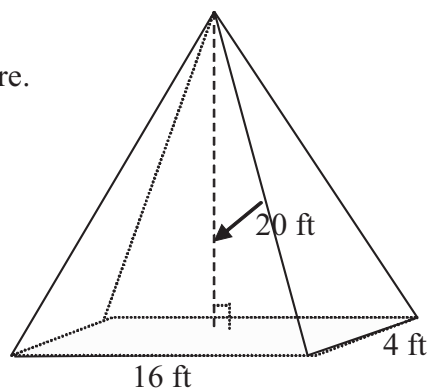
3

Explain what happens to a cone's volume when its height is doubled but its radius remains the same.

Set 2

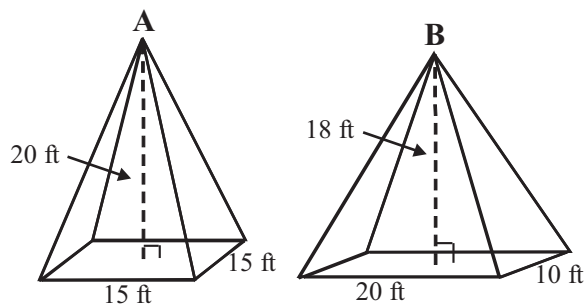
1

Create a square pyramid with the same height and volume as the rectangular pyramid shown here. Explain how you created it.



2

Luria is designing storage areas for her out-of-season clothing. Which design has greater volume, A or B? How much greater?



Additional Work Area

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