



Math Virtual Learning

# Geometry/Honors Geometry

Wednesday, April 29, 2020



# Geometry/Honors Geometry

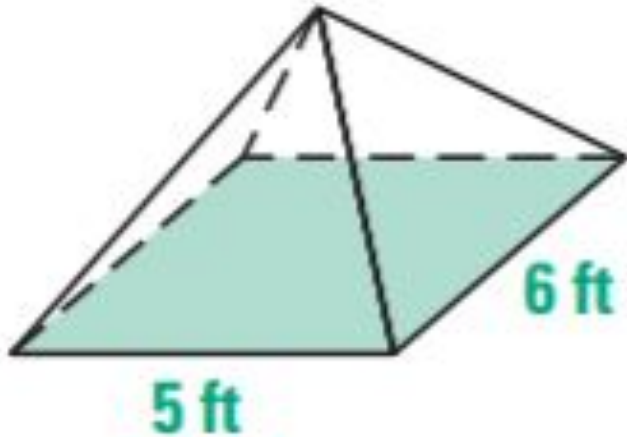
## Lesson: April 29th, 2020

### **Objective/Learning Target:**

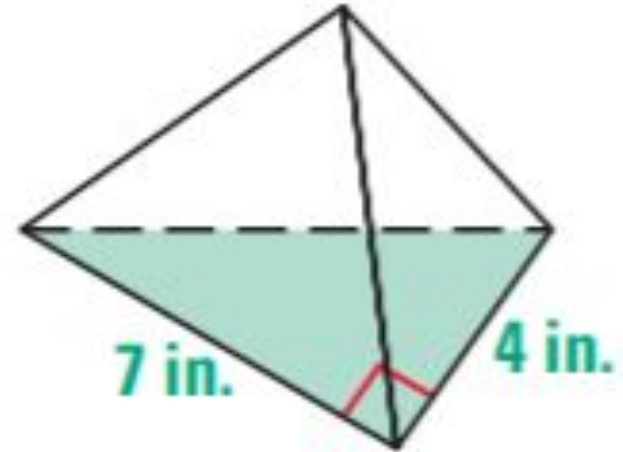
Students will calculate the volume of a pyramid.

# Warm-Up: Find the area of the base

9.



10.



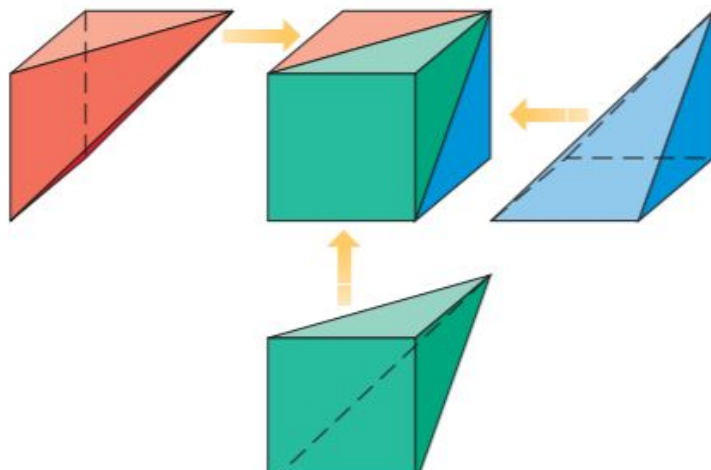
# Warm-Up Answers

a) 30ft squared

b) 28 in squared

In the puzzle below, you can see that the square prism can be made using three congruent pyramids. The volume of each pyramid is one-third the volume of the prism.

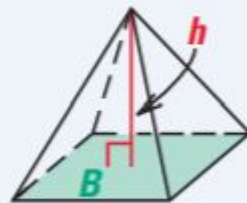
Volume Puzzle



## VOLUME OF A PYRAMID

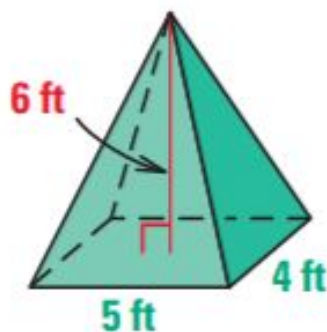
**Words** Volume =  $\frac{1}{3}$ (area of base)(height)

**Symbols**  $V = \frac{1}{3}Bh$

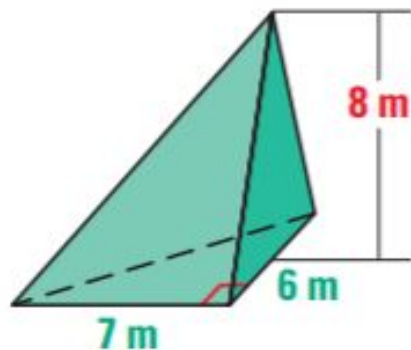


Find the volume of the pyramid.

a.



b.



### Solution

a.  $V = \frac{1}{3}Bh$

Write the formula  
for volume.

$$= \frac{1}{3}(5 \cdot 4)(6)$$

Substitute.

$$= 40$$

Simplify.

**ANSWER** ▶ The volume is  
40 cubic feet.

b.  $V = \frac{1}{3}Bh$

$$= \frac{1}{3}\left(\frac{1}{2} \cdot 7 \cdot 6\right)(8)$$

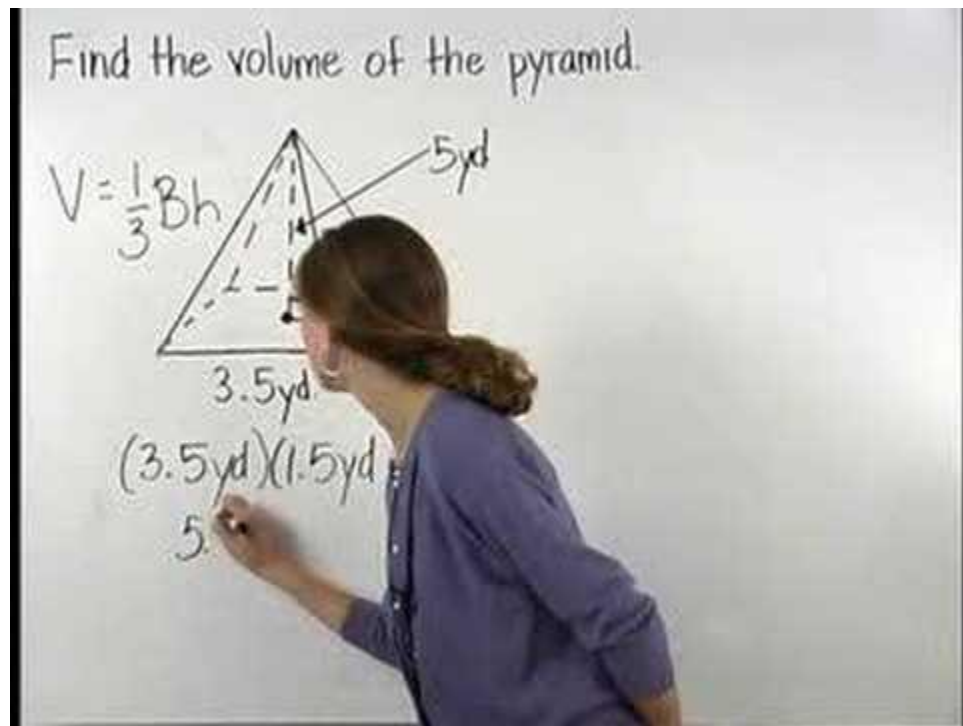
$$= 56$$

**ANSWER** ▶ The volume is  
56 cubic meters.

# Information

Please watch the following

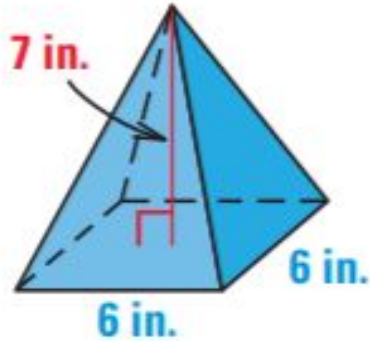
examples: First Video:  
Examples of finding the  
Volume of pyramid.



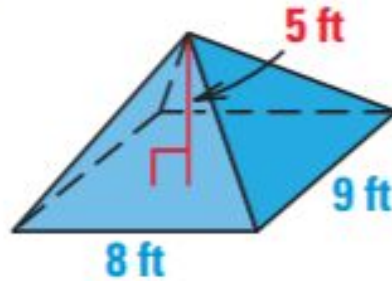
# Practice

Find the volume of the pyramid.

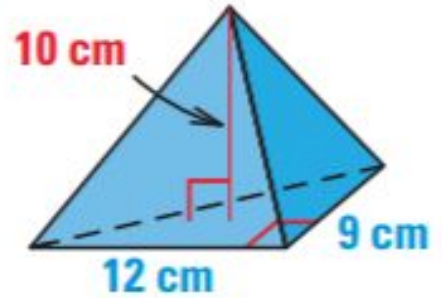
1.



2.



3.





# Answers

- 1) 84 in cubed
- 2) 120 ft cubed
- 3) 360 cm cubed

# Additional Practice

Click on the link and practice 10 problems.  
Look at the explanation if you make a  
mistake: [IXL Volume of Pyramid](#)