9.4-9.5E

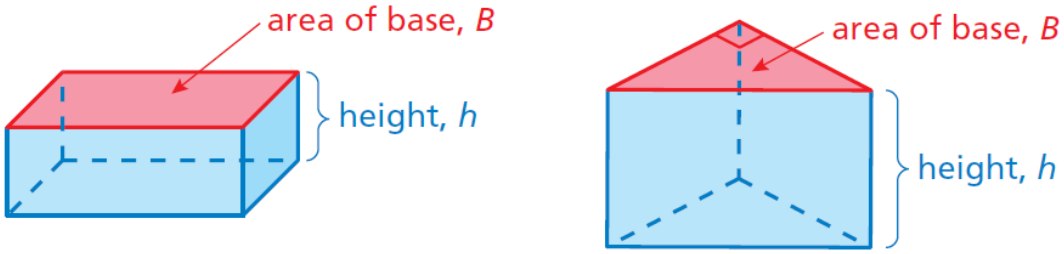
REVIEW

Volume of Prisms

The *volume* of a three-dimensional figure is a measure of the amount _____ that it occupies.

Volume is measured in _____ units.

<u>Volume of a prism:</u> the _____ of the area of the _____ and the _____ of the prism.



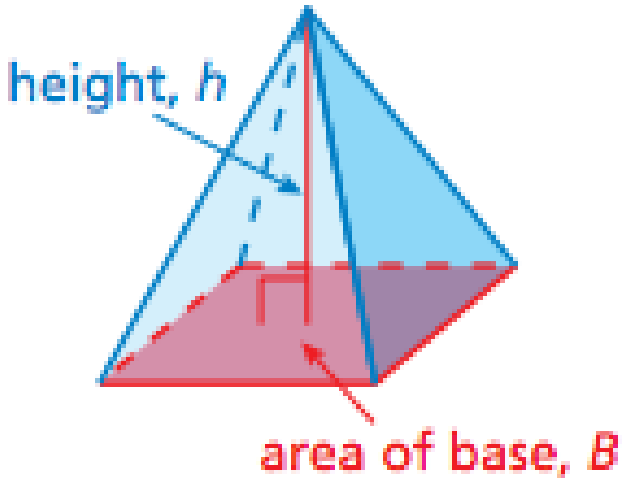
V=BH

Area of base

Height of prism

Volume of Pyramids

Volume of a Pyramid: _____ **the** _____ **of the area of the** _____ **and the** _____ **of the Pyramid.**



$$V = \frac{1}{3}BH$$

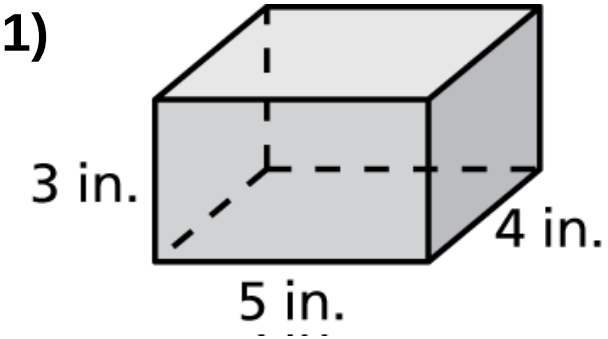
Area of base

Height of pyramid

Practice

Find the volume of the prism.

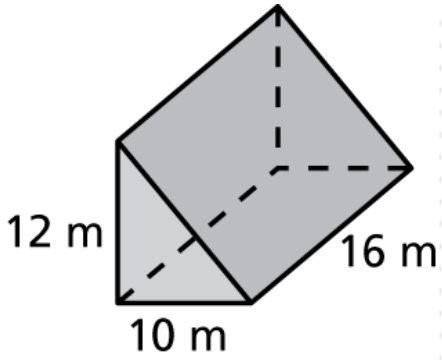
1)



Practice

Find the volume of the prism.

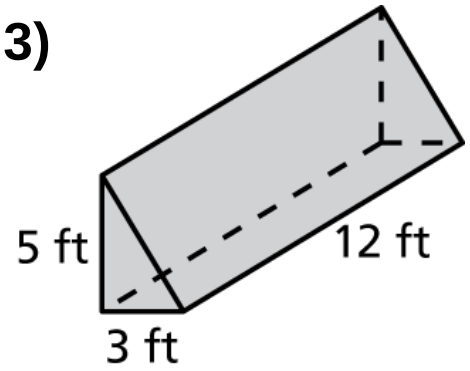
2)



Practice

Find the volume of the prism.

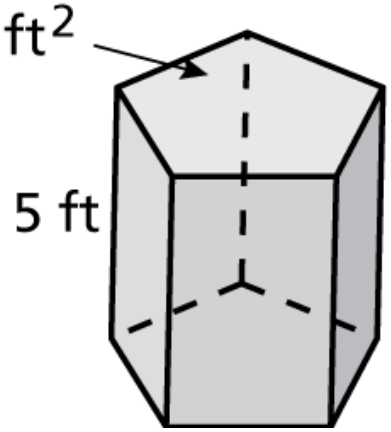
3)



Practice

Find the volume of the prism.

4) $B = 60\ \text{ft}^2$

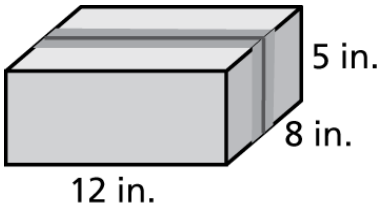


Practice

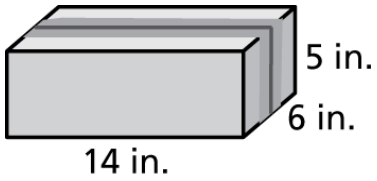
Each box is shaped like a rectangular prism. Which has more storage space? Explain.

5)

Box 1



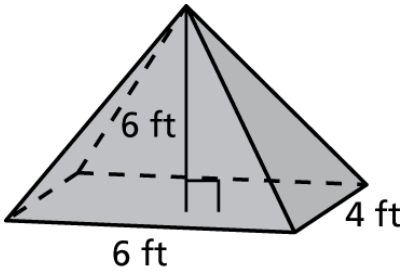
Box 2



Practice

Find the volume of the pyramid.

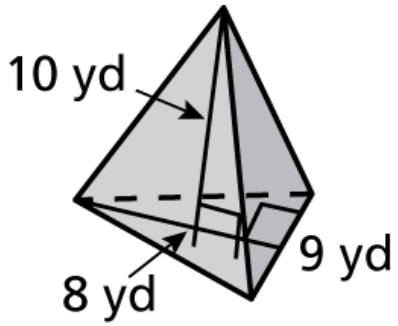
6)



Practice

Find the volume of the pyramid.

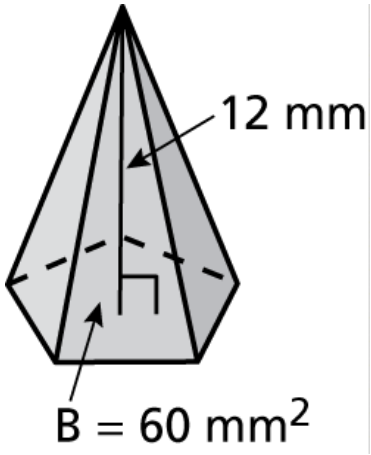
7)



Practice

Find the volume of the pyramid.

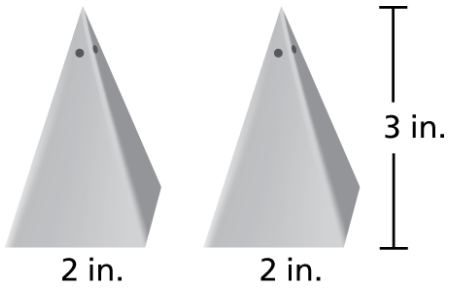
8)



Practice

You work at a restaurant that has 20 tables. Each table has a set of salt and pepper shakers on it that are in the shape of square pyramids. How much salt do you need to fill all the salt shakers?

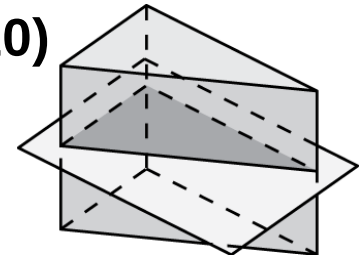
9)



Describing the Intersection of a Plane and a Solid

Describe the intersection of the plane and the solid.

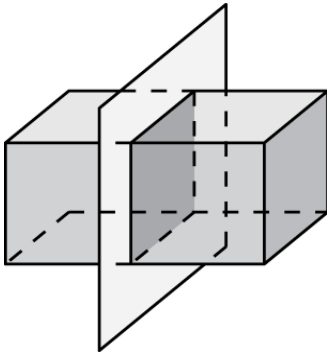
10)



The intersection is a

_____

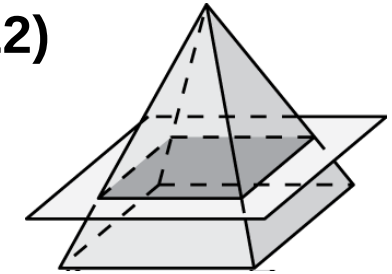
11)



The intersection is a

_____

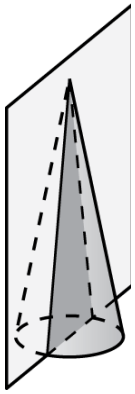
12)



The intersection is a

_____

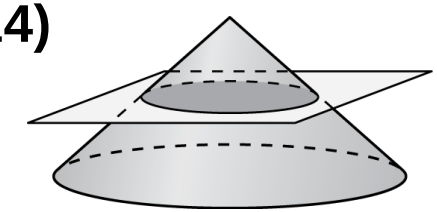
13)



The intersection is a

_____

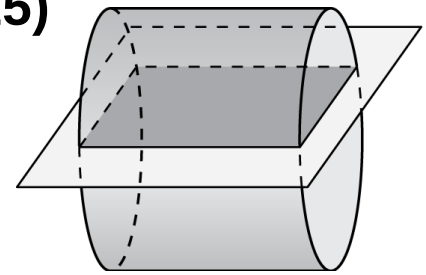
14)



The intersection is a

_____

15)



The intersection is a

_____