# Volume of Pyramids and Cones
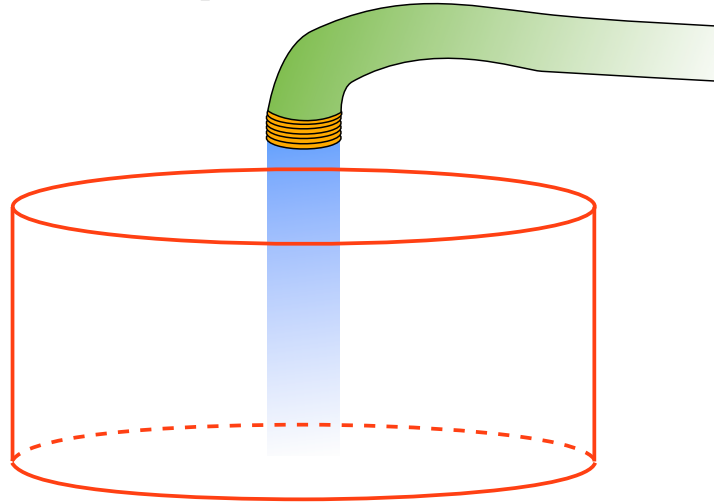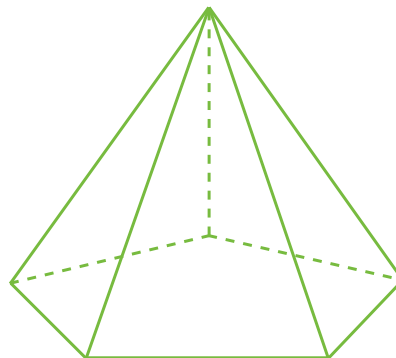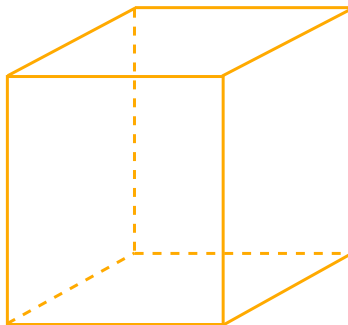
## Volume

the measure of the amount of space enclosed by a three-dimensional figure

the amount water it takes to fill the cylinder represents the volume of the cylinder.
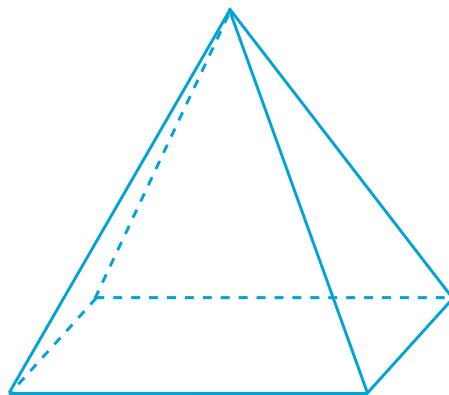
## Volume

the measure of the amount of space enclosed by a three-dimensional figure

# Pyramid

a polyhedron with one face, called the base
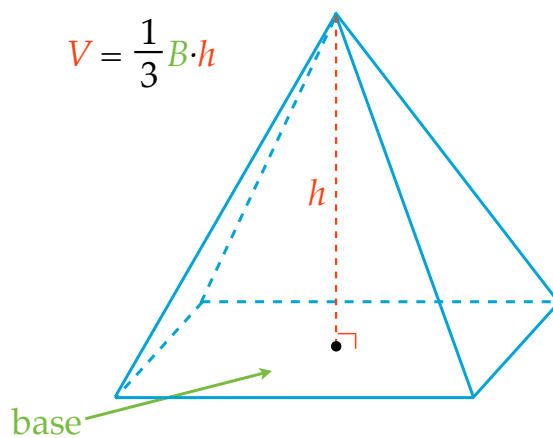and all other lateral faces intersect at one point.

# Pyramid

Volume of a Pyramid

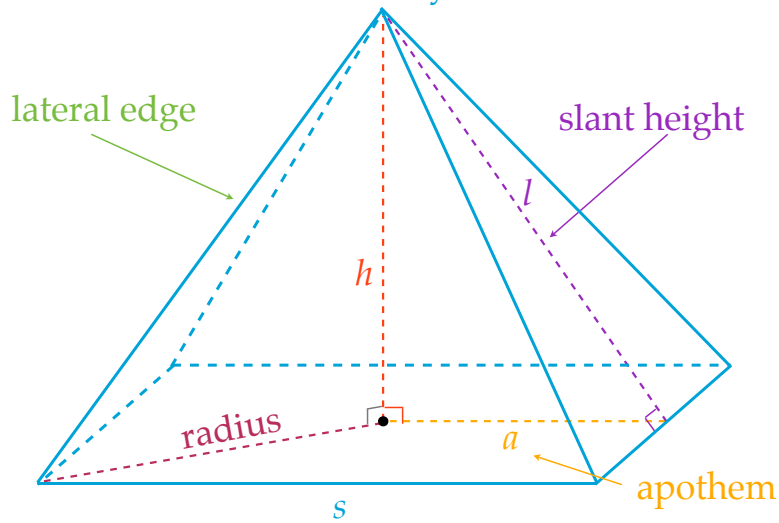$$V = \frac{1}{3} \text{ Area of Base } \cdot \text{ Height of Pyramid}$$

$$V = \frac{1}{3} B \cdot h$$

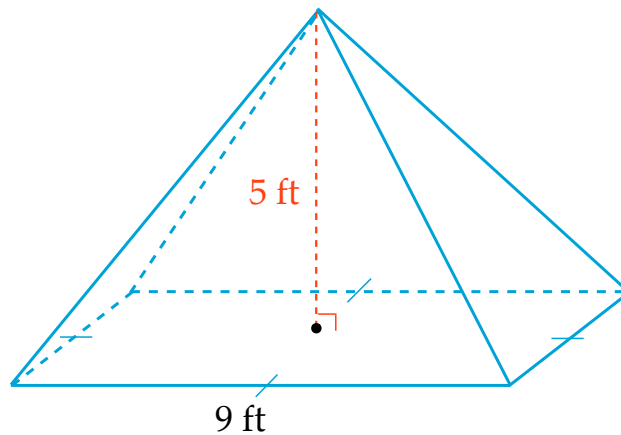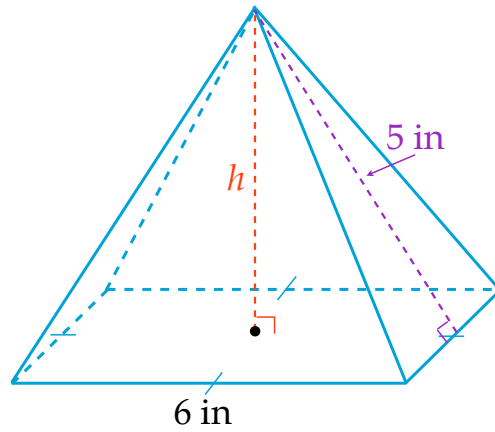$h$

base

# Pyramid

## Pieces of a Pyramid

lateral edge

slant height

$h$

$l$

radius

$a$

apothem

$s$

Calculate the Volume of the following Pyramids
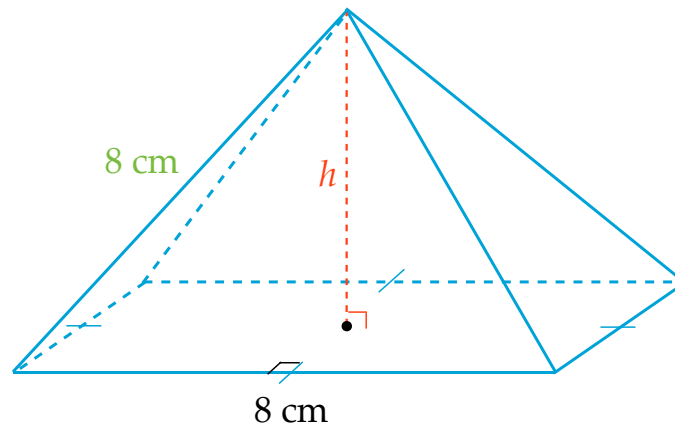
$$V = \frac{1}{3}B{\cdot}h$$

5 ft

9 ft

Calculate the Volume of the following Pyramids

$$V = \frac{1}{3}B \cdot h$$

$h$

5 in

6 in

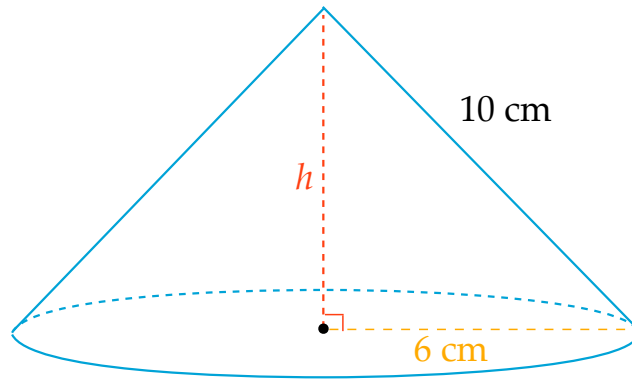Calculate the Volume of the following Pyramids

$$V = \frac{1}{3}B \cdot h$$

8 cm

$h$

8 cm

Volume of Pyramids and Cones
Pg. 4

Calculate the Volume of the following Pyramids

$$V = \frac{1}{3}B \cdot h$$

10 cm

$h$

6 cm

Pyramid    $V = \frac{1}{3}B \cdot h$

lateral edge

slant height

$l$

$h$

radius

apothem

$s$