# Lesson Four – Volumes of Right Pyramids and Right Cones\_



#### **Example 1**

Determine the volume of this right square pyramid, to the nearest cubic foot.



Measurement

#### Example 2

Determine the volume of a right rectangular pyramid with base dimensions 3.6 m by 4.7 m and a perpendicular height 6.9 m, to the nearest tenth of a cubic metre.

h	

Volume of a Right Cylinder  $V = \pi r^2 h$ Where *r* is the radius of the circle and *h* is the height of the cylinder

#### Example 3

The volume of a cylinder is  $150 \text{ cm}^3$ . If the height is 10 cm, determine the length of the radius, to the nearest cm.



## Volume of a Right Cone

$$V = \frac{1}{3}\pi r^2 h$$

Where r is the radius of the circle, and h is the height of the cone

### Example 4

Determine the volume of this cone, to the nearest cubic millimeter.



### Example 5

A cone has a height of 8 m and a volume of  $300 \text{ m}^3$ . Determine the radius of the base of the cone, to the nearest metre.