**Volume of a Pyramid**:

*V*=*B.h*

3

\*B (is the area of the rectangle)=L.W

Height

Slant Height

6 cm

6 cm

10 cm

**Example 1:**

V= B.h = 6. 6. 10 = 360 = 120 cm3 ; V=120 cm3

3 3 3

**Volume of a Cone**:

*V*=*πr2h*

3

*\*\*πr2* ***is the area of the circle***

Radius

Altitude/ Height

**Example 2:**

18 ft

V= π(18)2.24

3

**24 ft** V= 2592 π ft3= 8138.9 ft3

5ft

**8 ft**

**Example 3:** We need to find **h** first (using Pythagorean Theorem):

52+h2=82

h2=64-25=39 ; h=√39=6.25 ft; **h= 6.25 ft**

h V= π(5)2.(6.25) =

3

V= 52.1π ft3= 163.54 ft3