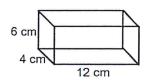
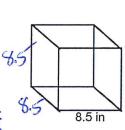
## Calculating Volume

1. Find the volume of the rectangular prism given below



2. Find the volume of a rectangular prism that has dimensions 10 feet by 14 feet by 8 feet.

3. Find the volume of the cube shown below.

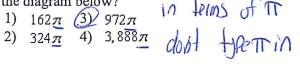


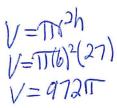
4. Lenny made a cube in technology class. Each edge measured 1.5 cm. What is the volume of the cube in cubic centimeters?

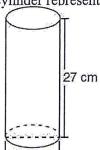
1) 2.25 2) 3.375

- V=lwh V=1,5(1.5)(1.5) 1/= 3.375 cm3

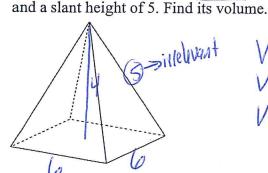
5. Which expression represents the volume, in cubic centimeters, of the cylinder represented in the diagram below? in terms of TT







<ul> <li>6. What is the volundiameter of 12 cm?</li> <li>1) 180 π</li> <li>2) 540 π</li> <li>3) 675 π</li> <li>4) 2,160 π</li> </ul>	v=1000 centimeter  V=1000 (6)2(15)  V=54000	ers, of a cylinder th	at has a height of 1	5 cm and a
n terms of TT ett into Callulator	,			
	em tall and has a ba he nearest tenth of a		f 3 cm. What is	the total volume
= 226.194671   = 226.2) 8. A cylindrical cont the diagram below.	tainer has a diameter	of 12 inches and a	height of 15 inche	s, as illustrated in
1) 6,785.8 2) 4,241.2	of this container to th	e near <u>est tenth</u> of a 3) 2,160.0	)	15 in
V=17(6)2(15) V= 1696.460033	3			(Not drawn to scale)
9. A side, s, of the bay	ase of the pyramid is nid in cubic meters?	12 meters, and the	height, $h$ , is 42 me	eters. What is the
12 5	/= 3(12)(12)(42) /= 3(12)(12)(42)			



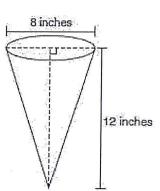
1 and 4 = 6

10. A regular pyramid has a square base with an edge length of 6 and an altitude of 4,

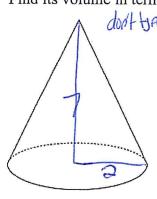
11. In the diagram below, a right circular cone has a diameter of 8 inches and a height of 12 inches.

What is the volume of the cone to the nearest cubic inch?

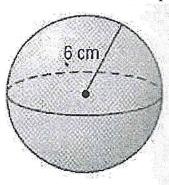
- (1) 201 2) 481
- 3) 603
- 4) 804



12. A cone has a base with a radius of 2 and an altitude of 7. Find its volume in terms of  $\pi$ .



13. Find the volume of the sphere shown below in terms of TT don't type TT in



Nown below in term
$$V = \frac{4}{3}\pi r^3$$

$$V = \frac{4}{3}\pi r l l l^3$$

$$V = \frac{4}{3}\pi l l l^3$$

