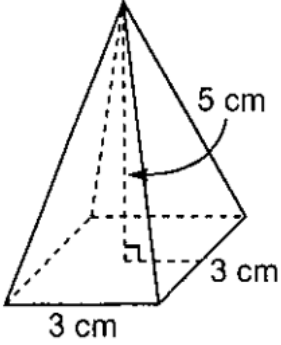
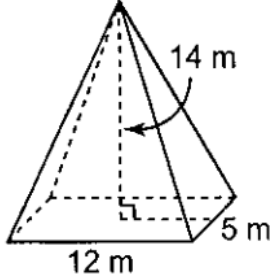
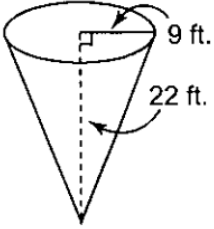


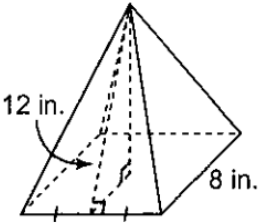
1. Find the volume of each pyramid.

	<p>a) a square pyramid</p>
	<p>b) a rectangular pyramid</p>

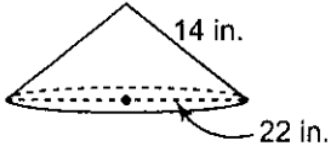
2. Find the volume of this cone, to the nearest cubic foot.

	$V = \frac{1}{3} \pi r^2 h$
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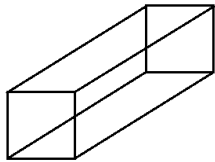
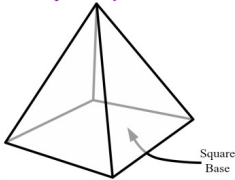
3. Find the volume of this square pyramid to the nearest cubic inch.
(12 in. is the slant height. Use Pythagoras to find the pyramid height)

	
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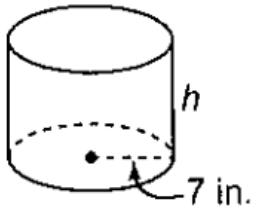
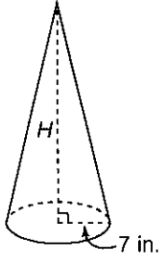
4. Find the volume of this cone, to the nearest cubic inch.

	
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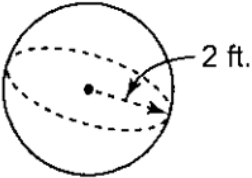
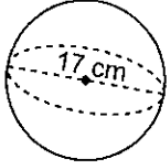
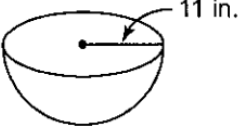
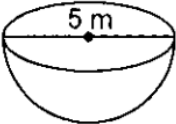
5. The base of a square prism has a side length 8 cm; it's height is 12 cm.
The base of a square pyramid has side length 12 cm; it's height is 17 cm.
Which object has the greater volume?

 <p style="text-align: center;">Square prism</p>	<p style="text-align: center;">Square Pyramid</p>  <p style="text-align: right;">Square Base</p>
<p>The _____ has the greater volume.</p>	

6. Both a cylinder and a cone have volume 1525 cubic inches and base radius 7 in.
Find the height of each object, to the nearest tenth of an inch.

7. Find the volume of each object, to the nearest square unit.

	$SA = \frac{4}{3} \pi r^3$
	
	$SA = \frac{2}{3} \pi r^3 \text{ (half a sphere)}$
	

8. A solid cork ball is covered in gold plating. It has a diameter of 14 cm.

To the nearest cubic centimetre, what is the volume of cork?

9. A spherical fishbowl holds 381 cubic feet of water. What is the diameter of the fishbowl?
(hint: to reverse r^3 take a cube root -- $\sqrt[3]{\quad}$)

$$SA = \frac{4}{3} \pi r^3$$