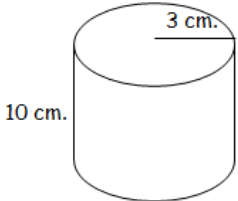
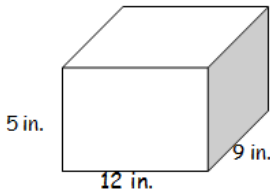
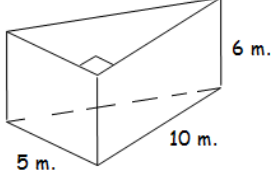
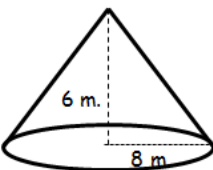
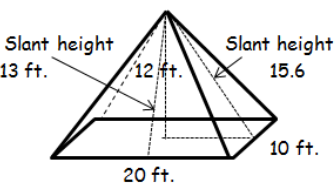
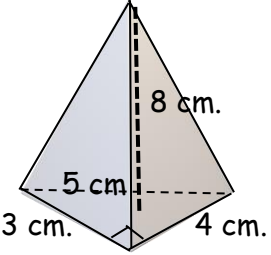
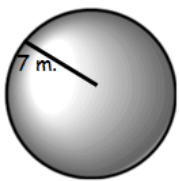
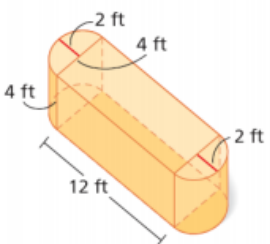
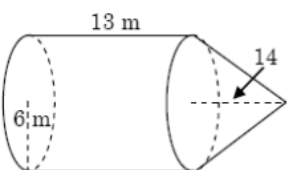


Group member names _____

Find the volume for each solid. Include units in your answer.

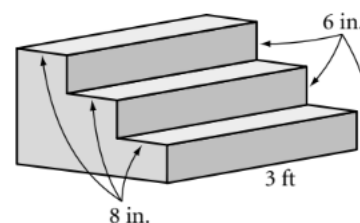
C-level (2 points each)		
G8-1 I can find the volume of a prism and cylinder.		
<p>1.</p> 	<p>2.</p> 	<p>3.</p> 
G8-2 I can find the volume of a pyramid and cone.		
<p>4.</p> 	<p>5.</p> 	<p>6.</p> 
G8-3 I can find the volume of a sphere and composite solid		
<p>7.</p> 	<p>8.</p> 	<p>9.</p> 

Application problems

10. Your family decides to buy an above ground cylindrical pool for the summer. It has a diameter of 15 feet and a height of 4 feet. To fill the pool, you use your garden hose, which has a flow rate of 3.2 cubic feet per minute. How long will it take to fill the pool? (3 points)

11. The height of a cone is 4 inches and the radius of the top is 2 inches. If a perfectly spherical scoop of snow cone melted would the cone be able to hold the liquid with given dimensions and no spillage? (4 points)

12. You need to build a set of solid cement steps for the entrance. How many cubic feet of cement do you need? (3 points)



B-Level (2 points each)

13. Height of a pyramid with a base of 14 sq. cm. and a volume of 126 cu. cm.

14. Radius of a cone with height of 15 in. and volume of 245π cu. in.

15. Radius of a sphere with volume of 36π sq. in.

16. Eight wooden spheres with radii 3 in. are packed snugly into a square box 12 in. on one side. The remaining space is filled with packing beads. What is the volume occupied by the packing beads?

A-level (4 points)

17. The slant height of the right circular cone is 8 ft and the diameter is 8 ft. What is the volume?