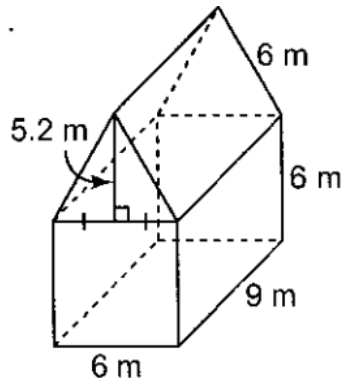
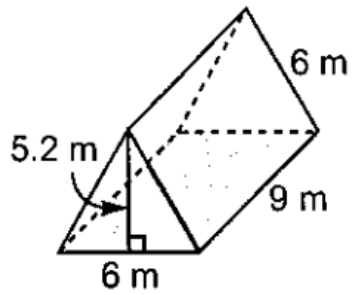


1. This composite object is a triangular prism on a rectangular prism. The base of the triangular prism is an equilateral triangle. Find the surface area of this object.

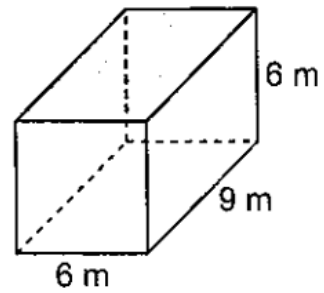


Find the area of the exposed surfaces of each separate object.



Surface area of _____ (shape)

Surface area: _____



Surface area of _____ (shape)

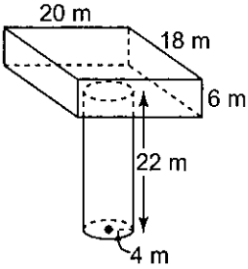
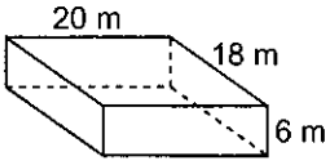
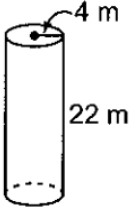
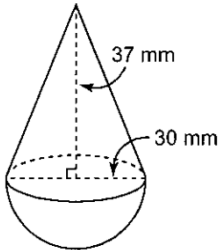
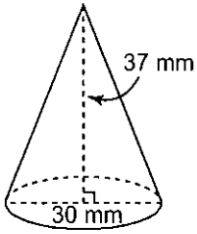
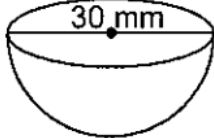
Surface area: _____

Total surface area: _____

Math 10C
Assignment 1.7

Name: _____

2. Determine the volume of each composite object, to the nearest cubic unit.

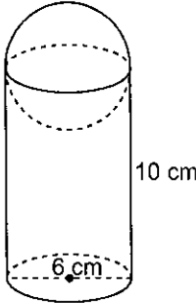
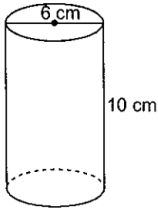
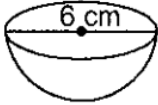
<p>a)</p> <div style="text-align: center;">  </div>	
<div style="text-align: center;">  </div>	<div style="text-align: center;">  </div>
<p>Volume of _____ (shape)</p>	<p>Volume of _____ (shape)</p>
<p>Volume: _____</p>	<p>Volume: _____</p>
<p>Total volume: _____</p>	
<p>b)</p> <div style="text-align: center;">  </div>	
<div style="text-align: center;">  </div>	<div style="text-align: center;">  </div>

Math 10C
Assignment 1.7

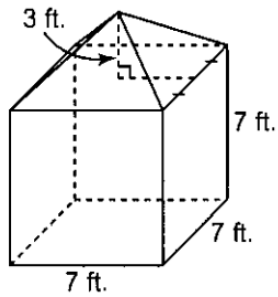
Name: _____

Volume of _____ (shape)	Volume of _____ (shape)
Volume: _____	Volume: _____
Total volume: _____	

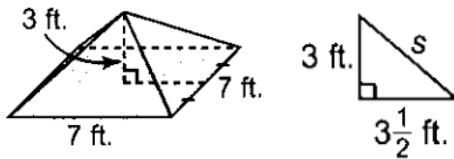
3. A sphere of flavoured ice is served in a cylinder-shaped paper cup. The cup has a diameter of 6 cm and a height of 10 cm. The sphere has the same diameter as the cup. To the nearest cubic centimetre, how much space is left inside the cup? (Hint: One-half of the sphere is below the rim of the cup.)

	
	
Volume of _____ (shape)	Volume of _____ (shape)
Volume: _____	Volume: _____
Total volume: _____	

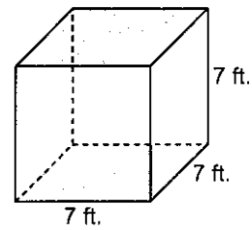
4. A tent has the shape of a square pyramid on top of a cube, as shown. To the nearest square foot, find the amount of material needed to make the tent.



Do not include the floor.



(Use Pythagoras to find the slant height/triangle height)



Surface area of _____ (shape)

Surface area of _____ (shape)

Surface area: _____

Surface area: _____

Total Surface area: _____