Surface Area, Volume and Capacity | Assignment 2

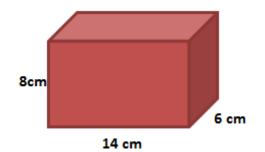
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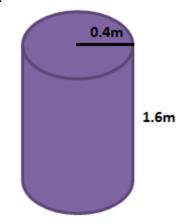
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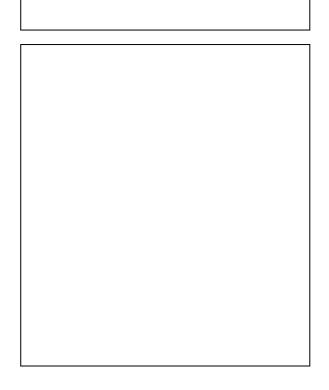
Make sure to show all of your work! You will be asked to make corrections if steps are not shown.

1. Calculate the volume of the following objects:

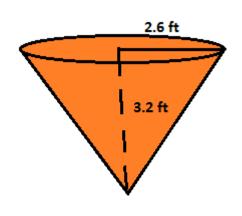


b.

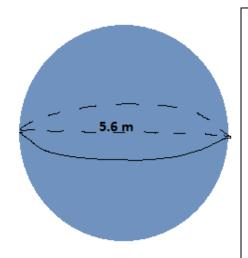




c.



d.

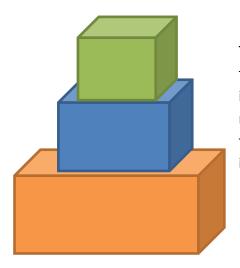


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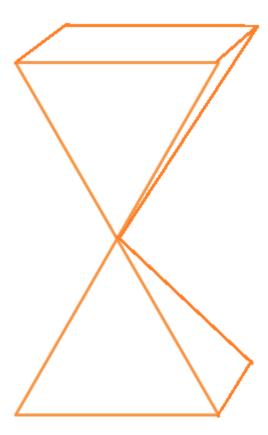
4. Calculate the volume of these complex geometric figures:

a.



The following is a diagram of three boxes stacked one on top of the other. The top boxes has measurements of 5 inches by 4 inches by 7 inches, the middle box has measurements of 12 inches by 14 inches by 11 inches and the bottom box has measurements of 24 inches by 18 inches by 24 inches. What is the volume of the stack?

b.



Two square based pyramids are stacked one on top of the other so that the form the classic 'egg timer'. What is the possible volume of sand that this egg timer could hold if the based has a measure of 5 cm by 5cm and the height of each pyramid is 7 cm?

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5.		he following measurements to the nearest tenth. Radius of a sphere with a volume of 330 cm ³ .
	b.	The radius of a cone with a height of 3m and a volume of 30m ³ .
	b.	The radius of a cone with a height of 3m and a volume of 30m ³ .
	b.	The radius of a cone with a height of 3m and a volume of 30m ³ .
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6. Construct a net diagram for the following pyramid, labelling the length of all the dimensions that apply. Then calculate the surface area and the volume.

