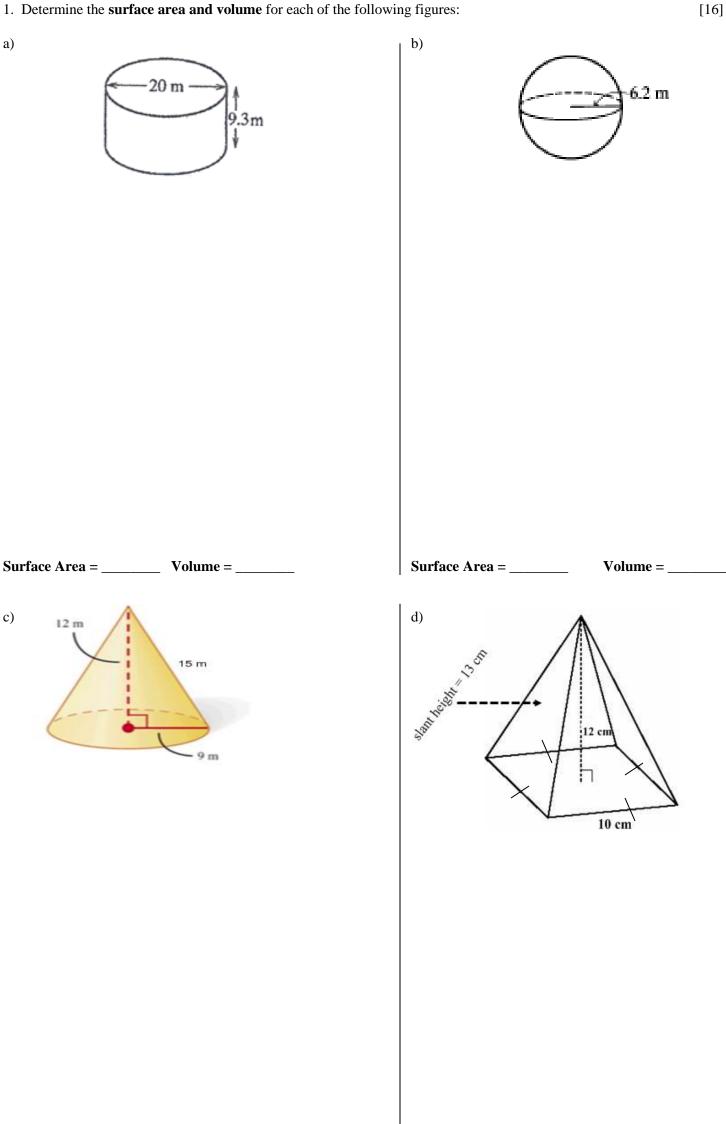
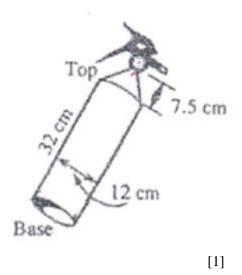
Geometry, N	Aeasurement and Finance	ce 10 Name	:
Chp. 6 Test	– Surface Area, Volume	and Capacity	Oct. 2015
Multiple Choice (10 Mark Circle the letter correspond	s) ling to the correct solution,		
1. Which figure is NOT th	ree-dimensional?		
[A] triangular prism	[B] cube	[C] cylinder	[D] circle
2. Find the volume of a cul	be 5 meters on each side.		
[A] 30 m^3	[B] 25 m ³	[C] 133 m ³	[D] 125 m ³
3. Find the volume of the r	ectangular prism as shown		
[A] 54 cm^3	[B] 60.8 cm^3		9 cm
[C] 55.8 cm ³	$[D] 61.8 \text{ cm}^3$	5 cm	
4. Find the volume of a con	ne that has a radius of 5 cm and	l a height of 29 cm.	
[A] 2277.7 cm^3	[B] 9110.6 cm ³	[C] 759.2 cm^3	[D] 3036.9 cm^3
5. The volume of a cylindr	ical can is 169.6 cm ³ . If the rad	dius is 3 cm, find the height	of the can.
[A] 6.0 cm	[B] 1.5 cm	[C] 18.0 cm	[D] 3.0 cm
6. Find the surface area of	the given cylinder to the neares	st square unit.	
[A] 35 m ²	[B] 161 m ²		• 4 m
[C] 51 m ²	[D] 322 m ²		8.8 m
7. Calculate the surface are	a of the right triangular prism a	as shown	
[A] 990 m ²	[B] 1116 m ²	/	15 m
[C] 1512 m ²	[D] 3024 m ²	9 m 212	28 m m
 Determine the volume o to the nearest tenth of a c 	f this composite object, which a ubic metre.	is a right square prism and a	right rectangular pyramid,
[A] 85.3 m ³	[B] 107.7 m ³	1.5 r	n 🔨 🛷
[C] 90.7 m ³	[D] 514.8 m ³	3.3 m	3.3 m 6.8 m
9. What is the surface area	of a box with no lid that is 75 o	cm long, 0.4 m wide, and 20	0 mm high?
[A] 7600 cm^2	[B] $10\ 600\ \mathrm{cm}^2$	[C] $30220\mathrm{cm}^2$	[D] 5700 cm^2
10. Convert the following.	42 $ft^2 = \ m^2$		
[A] 3.9 m^2	[B] 4.3 m^2	$[C] 5.6 \text{ m}^2$	[D] 12.8 m ²

- 1. Determine the **surface area and volume** for each of the following figures:
- a)

c)

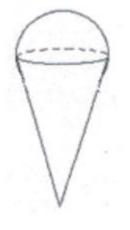


- 2. A fire extinguisher is in the form of a cylinder with a conical top as shown...
- a) Determine the volume of chemical that this extinguisher will hold.



b) How many litres of chemical does this extinguisher contain?

3. Mr. Bean purchases a cone of ice cream which has a radius of 2 inches and a height of 4.5 inches. How much ice cream will he get if the inside of the cone is filled and the top of the cone is the shape of a hemisphere? [4]



- 4. The Alaska Pipeline, finished in 1977, was created to move oil from the North Slope Oil Fields to the ice-free port of Valdez, Alaska. It is 800 miles long and 4 feet in diameter.
- a) What is **the volume of oil in cubic feet** contained in the pipeline?

[3]

b) How much steel was needed to make the Alaska Pipeline?

[2]