Name:

1. ____

2.____

3. ____

4. ___

5. ____

	Formulas		Formulas
Surface Area of a Cylinder	$SA = 2\pi r^2 + 2\pi rh$	Volume of a Sphere	$V = \frac{4}{3}\pi r^3$
Surface Area of a Cone	$SA = \pi r^2 + \pi rs$	Volume of a Cone	$V = \frac{1}{3}\pi r^2 h$
Surface Area of a Sphere	$SA = 4\pi r^2$	Volume of a Pyramid	$V = \frac{1}{3}Ah$

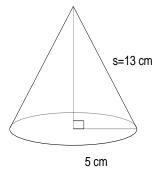
Part 1: Multiple Choice. 6 marks

Place the letter of the correct response in the space provided on the right.

1. A square pyramid has a height of 24 in. and a base length of 14 cm, what is the slant height of the square pyramid?

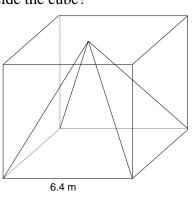
A) 17	B) 23
C) 25	D) 31

- 2. A cone has a radius of 5 cm and a slant height of 13 cm. What is its surface area (including the base), to the nearest square centimetre?
 - A) 263 cm^2 B) 273 cm^2 C) 283 cm^2 D) 293 cm^2



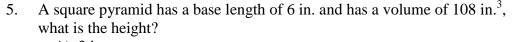
3. What is the volume of the pyramid that just fits inside the cube?

- A) 13.65m³
- B) $87.38m^3$ C) 262.14m³
- D) 785.43m³



A cone and a cylinder have the same height and the same base radius. 4. If volume of the cylinder is 81 cm^3 , what is the volume of the cone in cm³?

- A) 9
- B) 27
- C) 78
- D) 243



- A) 3 in.
- B) 6 in.
- C) 9 in.
- D) 12 in.

Unit 1: SAMPLE TEST

Name:

What is the surface area of the sphere, to the nearest tenth of a square inch, 6. 6. _____ if d = 14 in.? A) 615.8 in^2 B) 1436.8 in² C) 2463.0 in² D) 4310.3 in²

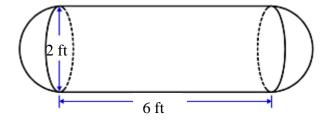
Part 2: Constructed Response. 15 marks Show ALL required workings in the space provided to receive FULL credit.

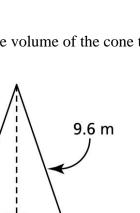
- 1. The surface area of a right cone is 185 in.² and its radius is 4.7 in. What is the slant height of the right cone to one decimal place? (3 Marks)
- 2. Calculate the volume of the cone to one decimal place.

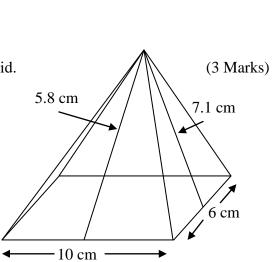
9.6 m -6.2 m

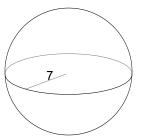
3. Calculate the surface area of the rectangular pyramid.

4. Determine the volume of the composite object to the nearest tenth of a cubic centimeter. (3 Marks)









(3 Marks)