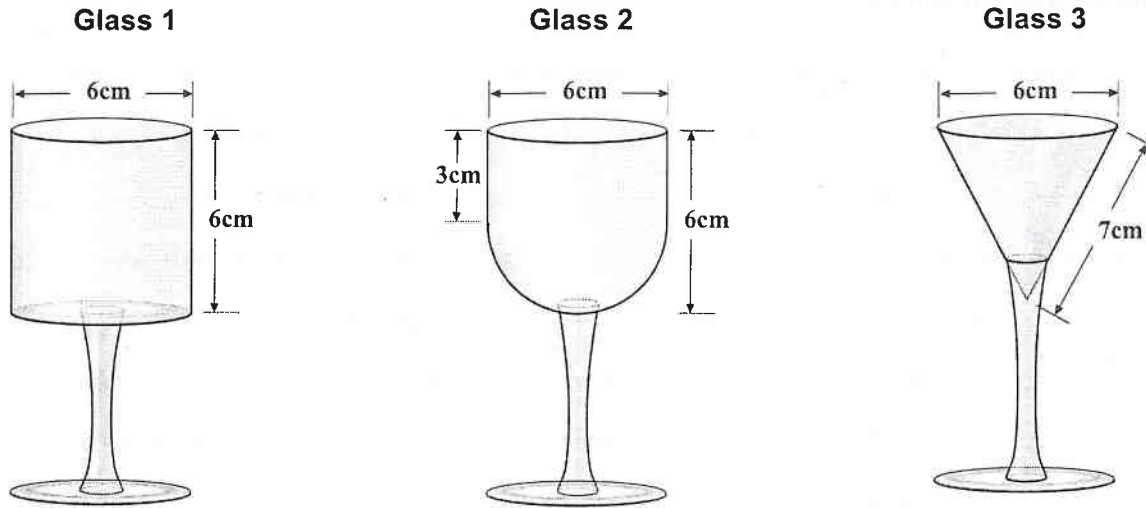


Name: _____

Glasses (Due at the end of class)



This picture shows three glasses.

The measurements are all in centimeters.

The bowl of Glass 2 has a cylindrical top and a hemispherical base.

The bowl of Glass 3 goes down into the stem.

1. Calculate the volume of liquid that would fill the bowl of each glass.
Show all your calculations and explain your reasoning.

a) Glass 1

.....

.....

.....

b) Glass 2

.....

.....

.....

c) Glass 3

.....

.....

.....

2. Find the height of liquid in Glass 2 when it is half full. (Half Volume)
Show how you figure it out

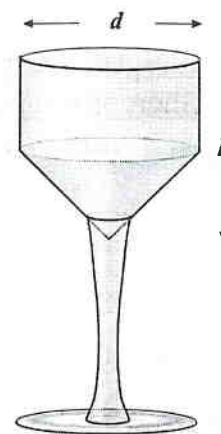
3. Glass 4 is shown in the diagram.
One of the following formulae gives the volume of Glass 4.
Which is it?

$$\frac{1}{6} \pi d^2 h$$

$$\frac{1}{6} \pi d h$$

$$\frac{1}{6} \pi d h^2$$

$$\frac{1}{6} \pi d^2 h^2$$



Glass 4

Explain how you can tell by just looking at the form of these expressions.
