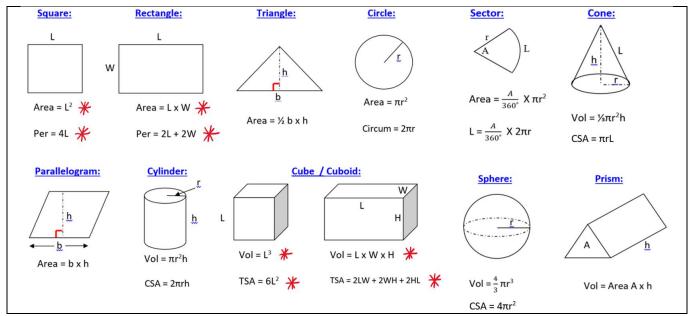
Topic 12: Area/Volume

1) The Formulae: (Note the ones with an asterisk next to them are \underline{NOT} in the Tables)



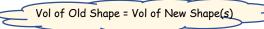
2) Solving Problems:

a) Tips for solving Area/Volume problems:

- 1. Draw a good-sized diagram.
- 2. Label and fill in all information given.
- 3. Identify the shapes in the question.
- 4. Write down relevant formulae for those shapes.

b) Recasting/Remoulding:

Melting down shapes and making new shapes.

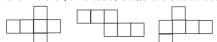


3) Nets:

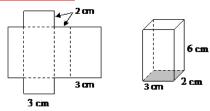
The net, of a particular shape, is a flat surface that, when folded, can be made into that shape.

a) Nets of Cubes:

There are 11 nets for a cube. Some are shown below.



b) Net of a Cuboid:



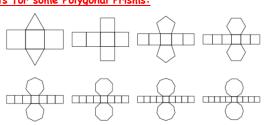
c) Net of a Cone:



d) Net of a Cylinder:

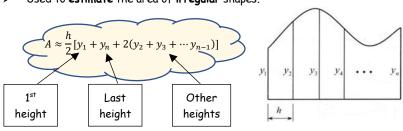


d) Nets for some Polygonal Prisms:



4) Trapezoidal Rule:

Used to estimate the area of irregular shapes.



Example: Find an estimate of the area below:

