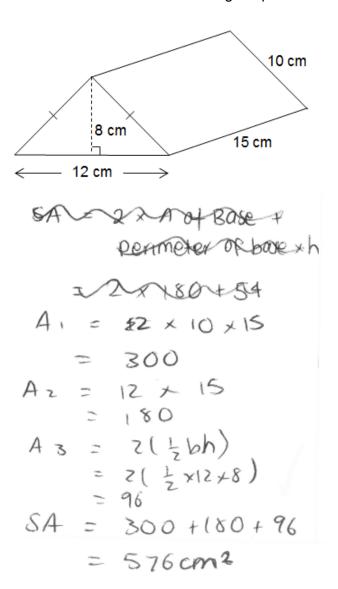
Surface Area and Volume Worksheet

1. Find the volume of a cube with side length 6 cm.

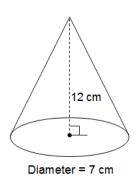
$$V ext{ of cube} = S^3 = 6^3 = 216 cm^3$$

2. Find the surface area of this triangular prism.



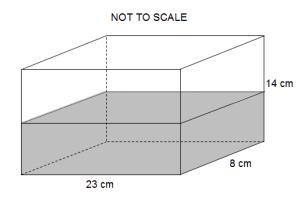
Successfully calculated the volume of the cube and the surface area of the triangular prism

3. Find the volume of this cone to the nearest cm³.



Correctly calculated the volume of the cone to the nearest cm³

4.



1000 mL of water is poured into the container shown in the diagram above.

(a) What is the volume of the container?

(b) What volume of water is required to fill the container?

Correctly
calculated the
volume of the
container.
Recognised
the need to
convert cubic
centimetres to
millilitres to
determine the
volume of
water required
to fill the
container

Grade Commentary

Chris has demonstrated a sound knowledge and understanding of surface area and volume. A high degree of accuracy was evident in solving familiar multi-step problems using the appropriate formulae. This work sample demonstrated characteristics of work typically produced by a student performing at a grade C6 level.