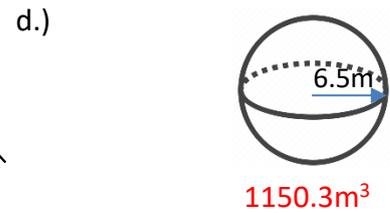
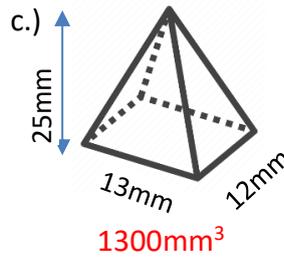
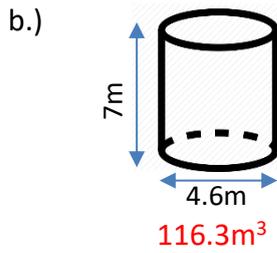
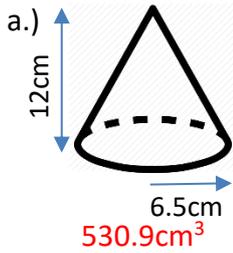
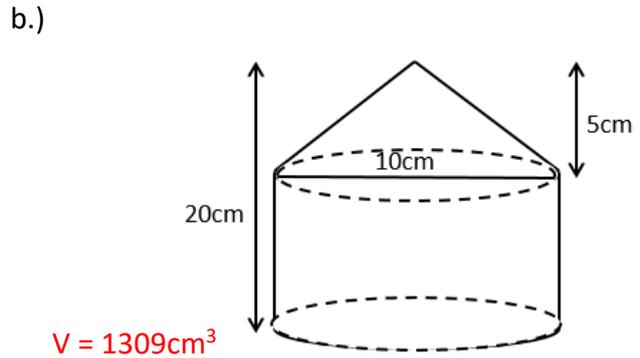
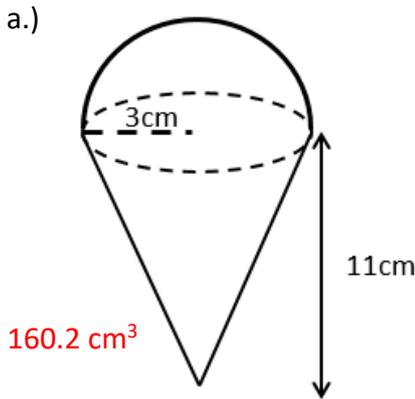


Answers

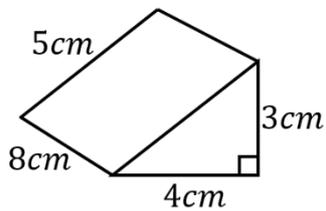
1. Calculate the volume of each shape:



2. Calculate the volume of each compound shape:

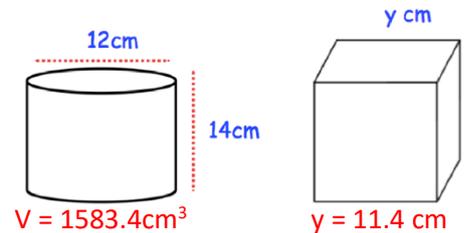


3. A baker wants to produce a triangular prism out of marzipan. They have 50cm^3 of marzipan; can they make the prism?



$V = 48\text{ cm}^3$
Since $48 < 50$ there is enough marzipan to make the prism

13. A cylinder and a cube have the same volume. Find the length of y .



4. A pharmaceutical company makes vitamin pills in the shape of spheres of radius 0.5cm .

a) Calculate the volume of one pill. Give your answer correct to 2 significant figures.

$V = 0.52\text{ cm}^3$ (2 sf)

The company decides to change the shape of each pill to a cylinder.

b) The new pill has the same volume as the original and its diameter is 1.4cm .

Calculate the height of the new pill.

$h = 0.34\text{cm}$ (2 sf)

