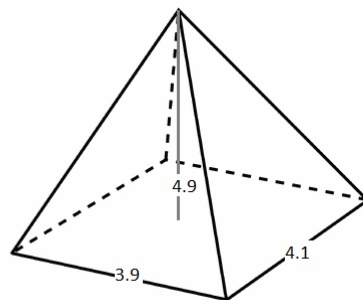
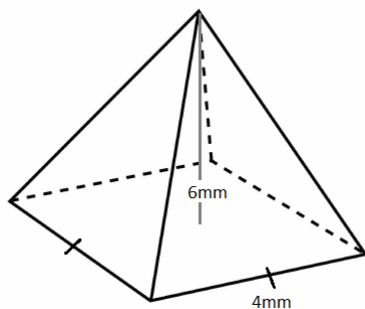
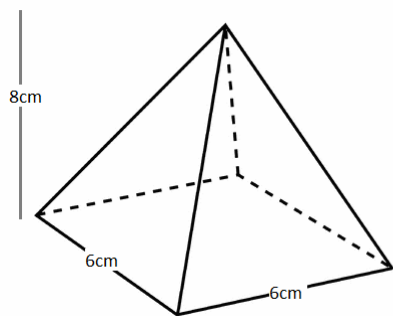
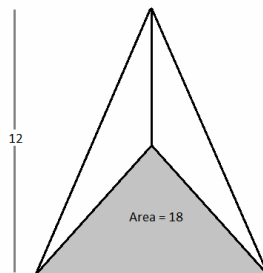
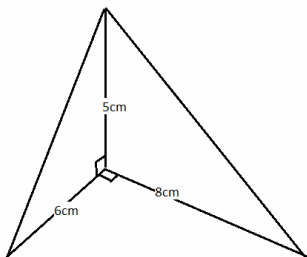


Volume of a Pyramid – www.m4ths.com

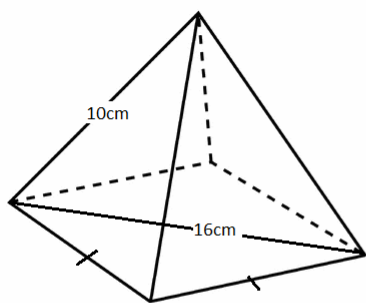
(1) Find the volume of each pyramid below stating the units for each answer.



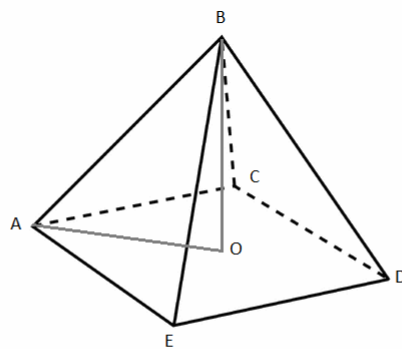
(2) Find the volume of the triangular based pyramids below.



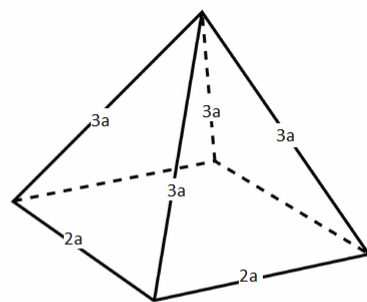
(3) Find the volume of each of the pyramids below.



16cm is the diagonal length of the base

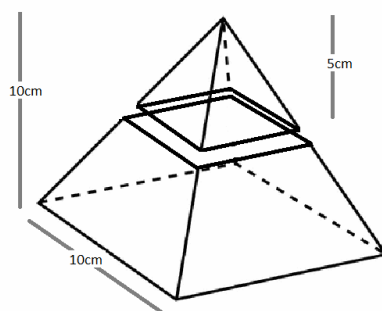


Angle BAO = 52 degrees
 AB = 5
 O is the centre of the quadrilateral
 AC = CD = DE = AE
 AO is perpendicular to BO



Give your answer in terms of a

(4) The pyramid below has the top removed to leave a frustum. Find the volume of the frustum to 2 decimal places.



(5) A square based pyramid made of gold with base lengths of a and height a is melted down into spheres with radius $\frac{1}{4}a$. Find out how many spheres can be made. You can assume there is no wastage.

(6) A square based pyramid is made of a square with side length a and 4 isosceles triangle with side lengths a and b. Find the volume of the pyramid in terms of a and b.

(7) 4 isosceles triangles with two sides of 4cm and enclosed angle of 38° form an open pyramid. Find the volume of the pyramid.