1. Calculate the volume of the gift box.

2. Calculate the volume of the cone.

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3. Determine the volume of sand that would fill a cone with a base radius of 6.5 cm and a height of 12.0 cm.

4. Sammy has a regular octagonal-based pyramidal paperweight filled with coloured liquid. It has a distance of 4.2 cm from the centre of its base to the midpoint of each side, a base perimeter of 19.0 cm, and a height of 6.0 cm. Determine the volume of the pyramid.

5. Calculate the volume of the cone.

2. Calculate the volume of the beach ball.

4. Calculate how much water you would need to fill a round water balloon with a radius of 5 cm.

6. Ice cream is sold to stores in cylindrical containers as shown. Each scoop of ice cream in a cone is a sphere with a diameter of 4.2 cm.
   a) How many scoops of ice cream are in each container?
   b) An ice cream cone with one scoop sells for $8.64. How much money will the ice cream store charge for each full cylinder of ice cream that it sells in cones?

8. a) Frederic has a sphere of clay with a radius of 10 cm. What additional volume of clay does he need to enlarge his sphere to one with a radius of 20 cm?
   b) How much foil would be needed to wrap the larger sphere?