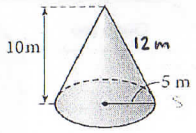
MEASUREMENT TEST REVIEW

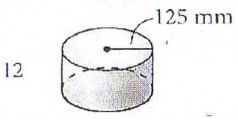
1. Covert the following:
   a) 30 L to millilitres
   b) 10 qt to pints
   c) 34 000 ml to litres
   d) 340 lb to kilograms
   e) 15 ft to metres
   f) 48 inches to feet

2. Calculate the surface area of the following shapes.

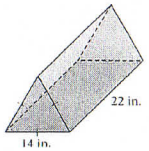
a)



b)

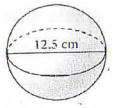


c)

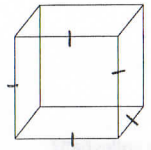


Calculate surface area continued...

d)

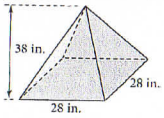


e)

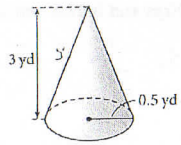


3. Calculate the volume of the following shapes.

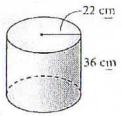
a)



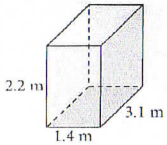
b)



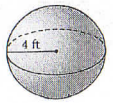
c)



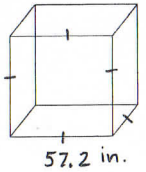
d)



e)



f)



4. Solve the following word problems. Show all of your calculations. Round your final answer to 1 decimal place.

a) A gift is in the shape of a square based pyramid. It needs to be covered with wrapping paper. If the gift box has a base of 15 cm and a height of 20 cm, how much wrapping paper is needed to cover the surface of the gift?

b) A volleyball has a diameter of 320 mm. How much air was used to fill up the volleyball?

c) A can of soup has a diameter of 13 cm and is 12.5 cm tall. How much soup does this can hold?

d) A cardboard container is in the shape of a triangular prism. The container is 25 cm long, 1.8 cm high, and has a base of 1.4 cm. What is the least amount of cardboard required to make the container?

. Solve the following word problems. Show all of your calculations for full marks. Round your final answer to 1 decimal place.

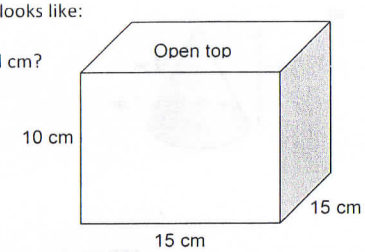
a) A rectangular vegetable garden measures 5 metres by 4 metres. The garden must be dug out and filled with topsoil to a depth of 0.5 metres.

i) Calculate the volume of the topsoil to fill the garden.

ii) If topsoil is delivered for $78.50/metre, calculate the cost of topsoil needed.

6. Sarah is going to paint gift boxes. Below is what one of them looks like:

a) How much paint will she need to paint one box in squared cm?



b) If one quart of paint is enough to paint 1 m^2, how many quarts will Sarah need to buy in order to paint her **20** gift boxes? (Recall: 1 cm^2 = 0.0001 m^2)