1. Many villages have water tanks that they use for farming. Jeff’s village has a cylinder shaped water tank that has a 4 m diameter and a 9 m height. Find the volume of the cylinder.

2. The base of a cone shaped glass is 12 inches and it is 18 inches tall. You fill the glass with soda pop to the top of the glass. What is the volume of soda pop?

3. A tennis ball has a diameter of 12 cm. Calculate the volume of the tennis ball.

**Tuesday, November 29th, 2016**

A can of sprite is 3.2 inches in diameter and 6.9 inches high.
A paper cone cup has a height of 2.2 inches high and a diameter of 3.4 inches.
How many paper cone cups will it take to empty one can of sprite?
Wednesday, November 30th, 2016

In $\triangle LMN$, $MP$ is perpendicular to $LN$. The dimensions of the triangle are shown in meters. What is the length of $LN$?

![Diagram of a triangle with $MP$ perpendicular to $LN$. The lengths of $LM$, $MN$, and $LN$ are given as 14, 14, and 6 respectively.]

Thursday, December 1st, 2016

Determine the distance between each set of points.

- (2, 4) and (-3, -1)
- (-5, 3) and (-1, -2)