How Much Water?

Task Statement 1

1. How much water do you drink each day?
2. How much water do you use each week?
3. Describe containers that would hold the amount of water you use in a week, a month, a year, and a lifetime.

How Much Water?

Task Statement 2

1. Some health experts suggest that people drink 8 glasses filled with 8 ounces of water each day.
   a. How many 16.9-ounce disposable water bottles is that?
   b. How many 32-ounce reusable water bottles is that?
   c. If filled with water to a 5-inch height, how many 2.75-inch diameter cylindrical glasses is that?
2. How much water do you use each week? Complete the table to find out.

	gallons of water per use	times per day	times per week	volume of water
brush teeth	0.5			
wash hands	1			
flush toilet	1.6			
shower for 1 minute	2			
hand wash dishes from 1 meal	3			
run dishwasher	6			
load of laundry	25			
total				

3. Describe containers that would hold the amount of water you use in a week, a month, a year, and a lifetime.
   a. How many 16.9-ounce disposable water bottles?
   b. How many 40-gallon bathtubs?
   c. How many 20,000-gallon swimming pools?
   d. Design your own container. Give the dimensions needed to calculate its volume. Consider if it could safely hold that much water.