

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.

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Task Statement 2

- Some health experts suggest that people drink 8 glasses filled with 8 ounces of water each day.
 - How many 16.9-ounce disposable water bottles is that?
 - How many 32-ounce reusable water bottles is that?
 - If filled with water to a 5-inch height, how many 2.75-inch diameter cylindrical glasses is that?
- 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 | | | | |

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