Volume

1. Billy has a rectangular fish tank that is 2 feet \times 1.5 \text{ feet} \times 0.6 \text{ foot}. What is the volume of the fish tank?

2. A rectangular swimming pool has a length of 50 meters, a width of 25 meters, and an average depth of 3 meters. What is the volume of the pool?

3. Suppose that the swimming pool in Problem 2 had an average depth of 1.5 meters for 30 meters of the length and an average depth of 3 meters for 20 meters of the length. How much less volume would the pool have?

4. A cubic centimeter holds 1 milliliter of water. Find the capacity of water in liters that this triangular prism holds.

5. What happens to the volume of a cube if you double its length? Give an example.