15.3. **Model:** The density of water is 1000 kg/m$^3$.

**Visualize:**

**Solve:** Volume of water in the swimming pool is

$$V = 6 \text{ m} \times 12 \text{ m} \times 3 \text{ m} - \frac{1}{2} (6 \text{ m} \times 12 \text{ m} \times 2 \text{ m}) = 144 \text{ m}^3$$

The mass of water in the swimming pool is

$$m = \rho V = (1000 \text{ kg/m}^3)(144 \text{ m}^3) = 1.44 \times 10^5 \text{ kg}$$