

# Water Resource Use

## MEASURING YOUR IMPACT

**Saving water** The need to conserve water is widespread throughout the world. People who live in developed countries such as the United States can make some simple changes to conserve water.

- (a) An older showerhead uses 150 L for a 10-minute shower, whereas a reduced-flow showerhead uses only 95 L. If you take one shower per day, how many liters of water would you save in 1 year if you replaced your older shower head?
  
  
  
  
  
  
  
  
  
  
- (b) An older toilet uses 27 L per flush, whereas a replacement toilet uses only 6 L per flush. If you flush the toilet four times per day, how many liters of water would you save in 1 year if you replaced your older toilet?
  
  
  
  
  
  
  
  
  
  
- (c) Now let's assume that you have a newer toilet that uses 6 L per flush, but you are considering upgrading to a dual-flush toilet. If you flush the toilet four times per day, but three of those times you could use the 3 L flush, how many liters of water would you save in 1 year?
  
  
  
  
  
  
  
  
  
  
- (d) If you made all three of the changes described in a-c, how much water, in total, would you save from going down the drain?
  
  
  
  
  
  
  
  
  
  
- (e) If you lived in a family of four people and you paid \$1 for every 1,000 L of water your family used, how much money, in total, could your family save in 1 year with these water conservation improvements?