

Math Connections – Water Conservation Adds Up

Use the information listed below to learn how water conservation can add up!

Population of Louisiana – 4,533,372

Population of East Baton Rouge Parish – 440, 171

Average person uses 70 gallons of water per day

Estimated cost to consumer for groundwater - \$0.0025 per gallon

1. If everyone in East Baton Rouge Parish conserved 5 gallons of water per day, how many gallons of water per day would be saved? How much money would you save in 1 year?
2. If everyone in the State of Louisiana conserved 5 gallons of water per day, how many gallons of water per day would be saved?
3. If the population of East Baton Rouge Parish grew by 30,000, how much more water would be needed at the average rate per person?
4. If a summer drought causes 50,000 people in East Baton Rouge to turn on their sprinklers for 30 minutes each day, how much water would be used to water the lawns of the 50,000 people? (Each sprinkler uses 1 gallon of water per minute.) How much would the extra water cost each homeowner for 1 month?