Name: _____   Date: _____

Section 4.3 Math Link

This worksheet will help you with the Math Link on page 143.

Water conservation is very important to protect local fresh water supplies.

1. Research at least three ways that your home, school, and community could reduce water consumption. Consider using books, using the Internet, or talking to people.
   • Use the chart to record your information. An example is done for you.

Source of Information	Ways to Conserve Water	Home	School	Community
A plumber	Place a plastic jug filled with water in the toilet tank to save 2 L per flush.	√	√	√

2. Develop three water math problems that ask how much water you might save if you used some of these ways of conserving. Provide the question and the answer for each.

Example:
On a typical day at a small school, the toilets are flushed a total of 150 times. An average of 6 L of water is used per flush.

a) How much water would be saved in a week if a plastic jug filled with water were placed in each toilet tank?

b) What percent of water is saved in a week?

Answer:

a) 150 × 2 × 5 = 1500 There would be a savings of 1500 L of water in a week.

b) $\frac{1500}{4500} = \frac{x}{100} = 33.3\%$ This represents a water savings of 33.3%.