

Section 4.4 Math Link

This worksheet will help you with the Math Link on page 149.

For #1 and #3:

- Show your work.
- Write a concluding statement.

1. In one day, a dripping faucet wastes about 25 L of water. A regular toilet flush uses 6 L of water per flush. If you flush your toilet 30 times a day, what percent of the water used by your toilet is wasted by the dripping faucet?

a) How many L of water are used if the toilet is flushed 30 times a day?

$$\underline{\quad} \text{ L/flush} \times \underline{\quad} \text{ times} = \underline{\quad} \text{ L}$$

b) A dripping faucet wastes about 25 L of water in a day. What percent is 25 L of the water used by your toilet per day? Use the answer you obtained in part a) to help set up a proportion and solve it.

2. Determine each percent of a percent. An example is done for you.

Example: 50% of 25% = $0.5 \times 25 = 12.5\%$ Convert 50% to a decimal and then multiply by 25.

a) 25% of 40% = _____

b) 5% of 24% = _____

c) 1.5% of 50% = _____

d) 20% of 0.6% = _____

3. Use the procedure you used in #2 to solve the following problem. $\frac{3}{10}\%$ of the world's fresh water is held in rivers and lakes. Approximately 9% of that water is used for industry and may be returned to the environment polluted. What percent of the world's fresh water is used by industry?
