Water Use & Conservation Worksheet

(Adapted from Izaak Walton League's Save Our Streams program)

Name_____

Date_____

Class_____

Instructions

Answer the following questions about your personal water use.

Water Use

Personal Water Use

1. How many pounds of water are in you? (Approximately five-sixths of your body weight is water.)

   Use this equation to calculate your answer:

   5/6 x _____ = _____
   Your weight in pounds *Pounds of water*

2. How many gallons of water are in your body? (1 gallon of water weighs 8.1 pounds.)

   Use this equation to calculate your answer:

   _____ */ 8.1 =* _____
   Pounds of water (answer to #1) *Gallons of water*

3. How many swimming pools full of water do you need in your lifetime? (Each person's body needs to replace approximately 1.5 million gallons of water throughout his/her lifetime. A backyard swimming pool holds approximately 20,000 gallons of water.)

   Use this equation to calculate your answer:

   1,500,000 gal / 20,000 gal = _____
   Swimming pools of water

City Water Use

4. How much water does your city/town use each day? (The average person uses 150 gallons of water per day. You will need to find out how many people live in your city or town. Access the latest population figures from the Chamber of Commerce, the U.S. Census Bureau, or your teacher.)

   Use this equation to calculate your answer:

   _____ *X 150 gal/person/day =* _____
   City population *Daily city water use*

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5. How much water does your city use in a year? (Use your answer from question 2 and multiply by the number of days in a year.)

Use this equation to calculate your answer:

_____ *X 365 days per year =* _____
Daily city water use *Annual city water use*

Water Conservation

Shower Water Use

6. Run your shower for one minute into a pitcher or bucket large enough to capture all of the water. Pour the water into large measuring cups or gallon containers, and count how many cups or gallons of water your shower puts out in one minute. Convert your calculation to the other measurement (cups or gallons), and record both measurements below. (There are 16 cups per gallon.)

_____ *cups or*

_____ *gallons*

7. The average shower uses 7 to 9 gallons of water per minute. Does your shower use more or less water per minute? Circle the correct answer below.

More Less

8. How much water does your family use to shower? (Estimate how long it takes everyone in your household, including yourself, to take a shower starting from the time the water starts running until it stops. Add up the total time for everyone.)

Use this equation to calculate your answer:

_____ *X* _____ = _____
Gallons (answer from #6) *Minutes for all showers* *Gallons for all showers*

Toilet Water Use

9. The average toilet uses 5 to 7 gallons per flush. Estimate how much water you flush each day.

Use this equation to calculate your answer:

6 gallons average per flush X _____ = _____
Number of flushes *Gallons flushed per day*