# Lesson 6: Splish, Splash, I was Takin' a Bath How Much? Worksheet <br> Answers 

## Section I. How many cans of pop?

1. If each glass of water is 8 ounces, how many ounces of water does the average person drink in a lifetime?
$\underline{219,000}$ glasses/lifetime X 8 ounces/glass $=1,752,000$ ounces/lifetime
2. A can of pop contains 12 ounces of liquid (mostly water). Using your answer from question 1 , and assuming that you only drink pop to get that amount of water, how many cans of pop does the average person drink in a lifetime?
$\underline{1,752,000}$ ounces/life $\div 12$ ounces/pop $=146,000$ pops/lifetime
3. How many 6 -packs of pop is this?
$146,000 \mathrm{pops} /$ lifetime $\div 6 \mathrm{pops} / 6$-pack $=24,333.36$-packs/lifetime
4. How many 12-packs of pop is this?
$\underline{24,333.3}$ 6-packs/lifetime $\div 2$ 6-packs/12-pack $=12,166.67$ 12-packs/lifetime

146,000 pops/lifetime $\div 12$ pops/12-pack $=12,166.67$ 12-packs/lifetime
5. A case of pop contains 24 cans. How many cases of pop is this?
$\underline{\text { 12,165.65 12-packs/lifetime } \div 2 \text { 12-packs/case }=6,083.3 \text { cases/lifetime }}$
146,000 pops/lifetime $\div 24$ pops/case $=6,083.3$ cases/lifetime

## Section II. How many miles of pop?

1. If each glass of water is 8 ounces, how many ounces of water does the average person drink in a lifetime?
$\underline{219,000}$ glasses/lifetime X 8 ounces/glass $=1,752,000$ ounces/lifetime
2. A can of pop contains 12 ounces of liquid (mostly water). How many cans of pop does the average person drink in a lifetime?

1,752,000 ounces/lifetime $\div 12$ ounces/pop $=146,000$ pops/lifetime
3. A 12-ounce can of pop is approximately 5 inches tall. How many "inches of pop" does the average person drink in a lifetime?

146,000 pops/lifetime X 5 inches/pop = 730,000 inches/lifetime
4. How many "feet of pop" is this?

$$
\underline{730,000} \text { inches/lifetime } \div 12 \text { inches/foot }=60,833.3 \text { feet/lifetime }
$$

5. How many "miles of pop" is this? (Note: There are 5, 280 feet in one mile.)

$$
\underline{60,833.3 \text { feet/lifetime } \div 5,280 \text { feet } / \mathrm{mile}=11.5 \text { miles/lifetime }}
$$

## Section III. How many swimming pools of water?

1. If each glass of water is 8 ounces, how many ounces of water does the average person drink in a lifetime?
$\underline{219,000}$ glasses/lifetime X 8 ounces/glass $=1,752,000$ ounces/life
2. One gallon contains 128 ounces. How many gallons of water does the average person drink in a lifetime?

## 1,752,000 ounces/lifetime $\div 128$ ounces/gallon $=13,687.5$ gallons/lifetime

3. An average sized swimming pool ( 40 ft . x 20 ft . x 5 ft .) has a volume of is $4,000 \mathrm{ft}^{3}$. If there are 7.48 gallons in $1 \mathrm{ft}^{3}$, how many gallons of water will this swimming pool hold?

$$
\underline{4,000 \mathrm{ft} .} \underline{\underline{3}} / \mathrm{pool} \times 7.48 \text { gallons } / \mathrm{ft} . \underline{\underline{3}}=29,920 \text { gallons } / \text { pool }
$$

4. How many "swimming pools" of water does the average person drink in a lifetime?

13,687.5 gallons/lifetime $\div 29,920$ gallons/pool $=0.46$ pools/lifetime (about $1 ⁄ 2$ a pool )

Adapted from: "How Many Cans of Soda Pop?" Ecology Earth’s Natural Resources Activity Book, by Jean Hopkins, Susan Johnson and Charles William McLaughlin, New Jersey: Prentice Hall, Inc., 1993 (ISBN 0-13-987090-3).

