**Using and Wasting Water Calculations**

**Use Excel or Google Sheets to solve these problems. Practice using the equation functions to create your tables.**

**You may look at my example to see one way to set it up.**

**Problem 1**: You have a sink that drips 2 drops of water every second. There are roughly 3,500 drops in one liter. One liter is 0.265 gallons.

Set up the table so that each of these parameters are written in individual cells and can be changed. For example, if you have another location that drips 5 drops every second, updating that one cell would automatically recalculate your totals. Or if you determine that there are 4,000 drops of water in a liter, updating that one cell would automatically recalculate your totals.

Calculate the amount of water that is wasted in 1 day and 1 year (365 days) from this faucet:

* In liters
* In gallons

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**Problem 2:** Pick 3 states to compare from the sheet provided from the USGS. We will only look at **freshwater withdrawals data** in million gallons per day.

There should be two water columns to focus on (daily groundwater and daily surface water).

You must also include the population data provided.

For those three states:

* Sum water withdrawals to a combined daily total
* Convert each water withdrawal to a yearly total.
* Calculate the water use per capita (total water use/population) per day and per year

This data is from p. 9 of the "Estimated Use of Water in the United States in 2010, Circular 1405" of the US Geological Survey (USGS)