**What is saved if YOU don’t use plastic water bottles?**

|  |  |  |
| --- | --- | --- |
| **Water** - The average American consumes 167 bottles of water each year. (Assume 16 ounce (oz) bottles which is 0.125 gallons) | | |
| Gallons of water I drink each year | | 167 water bottles X 0.125 gallons = \_\_\_\_\_\_\_\_\_\_ gallons |
| Water used to make bottled water - three times as much as the volume a person drinks | | \_\_\_\_\_\_\_\_\_ X 3 = \_\_\_\_\_\_\_\_\_\_ gallons |
|  | | |
| **Oil** – is used to make and transport plastic. The amount of oil used to make plastic and transport one bottle of water is equivalent to filling the water bottle ¼ full of oil. | | |
| Oil used to make each bottle | 16 oz bottle X ¼ = \_\_\_\_\_\_\_\_\_\_\_ oz of oil | |
| Oil used for all bottles | \_\_\_\_\_\_\_\_ oz X 167 bottles = \_\_\_\_\_\_\_\_\_ oz of oil | |
| Oil used (gallons) | \_\_\_\_\_\_\_\_\_ oz of oil ÷ 128 oz/gallon = \_\_\_\_\_\_\_\_ gallons of oil | |
| Equivalent gallons of gasoline  (one 42 gallon barrel of oil makes 21 gallons of gasoline) | \_\_\_\_\_\_\_\_ gallons of oil ÷ 2 = \_\_\_\_\_\_\_\_\_\_ gallons of gasoline | |
|  | | |
| **Carbon Dioxide** (air pollution) - is produced from the factories that make the oil into bottles and is emitted from the vehicles that transport the bottles. Making 5 bottles of water produces a total of about 1 pound of CO2 released into the air. | | |
| Pounds of CO2 into the air | 167 water bottles ÷ 5 oz = \_\_\_\_\_\_\_\_\_\_\_ pounds of CO2 | |
|  | | |
| **Money** – if a bottle of water costs about $1.25, how much can you and your family save each year? | | |
| Cost saving for me each year | 167 bottles X $1.25 = $\_\_\_\_\_\_\_\_\_\_\_\_ | |
| Cost savings for your family | $\_\_\_\_\_\_\_\_\_\_\_ X \_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_\_\_\_\_ | |

**Summary** – Use your calculations to complete the following statements.

By not using water bottles, I can save

\_\_\_\_\_\_\_\_\_\_\_\_ gallons of water.

\_\_\_\_\_\_\_\_\_\_\_ gallons of oil

\_\_\_\_\_\_\_\_\_\_\_ gallons of gasoline.

\_\_\_\_\_\_\_\_\_\_\_ pounds of carbon dioxide pollution from entering the air.

\_\_\_\_\_\_\_\_\_\_\_ dollars and my family would save $\_\_\_\_\_\_\_\_\_\_\_\_\_\_ .

**Action:**

Using what you now know, brainstorm a message for fellow students about the need for reducing water bottle use. The message can be communicated by poster, a cartoon, a comic strip, a poem, a song or rap. Have fun, but get the message across!