

41.6: General Questions

1. A typical water bottle contains 16.9 mL of water, which is 16.9 grams of water.
 - a. Calculate the number of water bottles you would have if you had 3 dozen water bottles.
 - b. Calculate the mass of water you would have if you had 3 dozen water bottles.
 - c. Calculate the number of water molecules there would be in a single water bottle.
2. A water molecule (H_2O) contains two hydrogen atoms and one oxygen atom.
 - a. Calculate the mass of water in 3 moles of water.
 - b. Calculate the number of water molecules in 3 moles of water.
3. How many moles of carbon (C) has the same mass as 6 moles of helium (He)?
4. What mass of sodium (Na) has the same number of atoms as 24 grams of carbon (C)?

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