Purpose:
Figure out the empirical formula of a compound.

WARMUP:
copy this table


Molecular formula definition: The number of atoms in one moleate of each element type Empirical formula definition:
The molecular formula after you divide by the largest common factor.

How to Find Empiric al Formula
(1) Write formula as grams

$$
F_{69.94} O_{30.06}
$$

(2) Divide by atomic mass
(3) Divide or multiply both sides by various numbers. to get a whole number formula.
use the notes above to solve homework problem 14, below.
14. What is the empirical formula for a compound that has 69.94 grams iron and 30.06 grams of oxygen?

15. Find the empirical formula of a compound containing 32.0 g of bromine and 4.9 g of magnesium.

