Percent Composition

1. Find the % composition of $H_2O = 18.09/m_0$

$$\% O = \frac{16.09}{18.0} \times 100\% = 88.9\%$$

2. Find the % composition of FeSO₄ = 151.9 \%_{mol}

% Fe =
$$\frac{55.85}{151.75}$$
 × 100% = 36.7%

$$2S = \frac{32.19}{151.9} \times 1007. = 21.17.$$

3. Find the % composition of C2H5OH = 46.09/mol

4. Find the % composition of (NH4)3PO4 = 149.03/10.1

$$2N = \frac{42.0g}{149.0g} \times 10070 = 28.2\%$$
 $2p = \frac{31.0g}{149.0g} \times 100\% = 20.8\%$

$$\% H = \frac{12.09}{149.09} \times 100\% = 8.05\%$$

$$\% O = \frac{64.09}{149.09} \times 100\% = 43.0\%$$

5. Find the % composition of water in CaSO₄•2H₂O = 172.29/mal

Analysis of a compound shows that it consists of 352g of Cu and 48g of oxygen. What is the % composition of the compound? 3529+489 = 4009

$$7.0 = \frac{48g}{400g} \times 1007. = 12%$$

7. If you had 126.9g of H2CO3, what mass would be due to hydrogen? What mass would be due to carbon? Oxygen? $H_2(O_3 = 62.09/m.1)$

$$2H = \frac{2.09}{62.0y} \times 100\% = 3.2\%$$
 0.03226 × 126.9g = 4.1g due to hydrogen

$$9.C = \frac{12.0}{62.03} = 1007. = 19.49.$$
 $\cdot 19355 \times 126.9g = 24.6g$ due to carbon