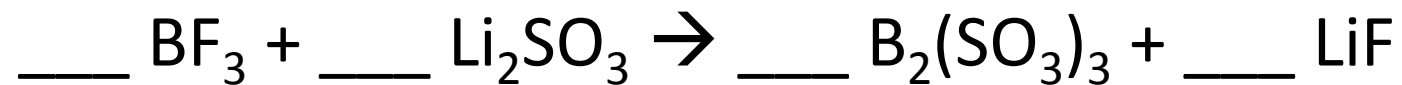


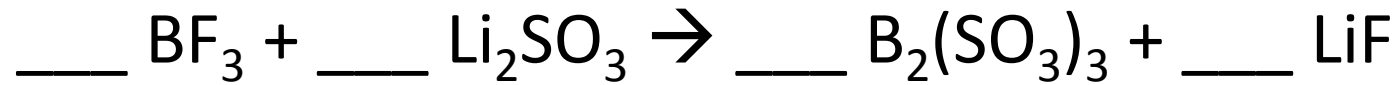
Balancing Chemical Equations

Balance the chemical reaction:



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Balance the chemical reaction:



Step 1. Write out coefficients



Step 2. Construct the atom equations:

$$\text{B: } a = 2x$$

$$\text{F: } 3a = y$$

$$\text{Li: } 2b = y$$

$$\text{S: } b = 3x$$

$$\text{O: } 3b = 9x$$

Balancing Chemical Equations

Step 3. Make an initial:

$$\text{B: } a = 2x$$

$$\text{F: } 3a = y$$

$$\text{Li: } 2b = y$$

$$\text{S: } b = 3x$$

$$\text{O: } 3b = 9x \quad \text{If } x = 1 \text{ then } b = 3, y = 6 \text{ and } a = 2$$

The balanced equation is:

