

## Writing Neutral Compounds

Eventually we should do this in our head! When asked to show work you will use this "crossing over" method.

- 1) Write cation first then anion
- 2) Write the charges with each symbol
- 3) The superscript of one atom, becomes the subscript of the other. Use the absolute value! This is "crossing over"
- 4) Reduce your subscripts to the lowest numbers possible while maintaining the correct ratio
- 5) You do not need to put the 1s for subscripts!
- 6) CAREFUL WITH POLYATOMIC IONS!

### "Crossing Over"

1) Barium Fluoride

5) Aluminum Sulfide

2) Barium Nitrate

6) Magnesium Carbonate

3) Ammonium Sulfate

7) Zinc Hydroxide

4) Iron (III) Chloride

8) Aluminum Phosphate

### "Working Backwards"