

# Monday Nov 28

Answers pg 189 #3, Worksheets  
Ionic Compounds cont

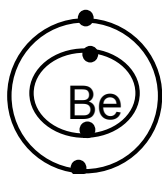
## Warm-Up

1. What would be the names for the following compounds:
  - a) potassium and fluorine
  - b) magnesium and nitrogen
  - c) sodium and iodine

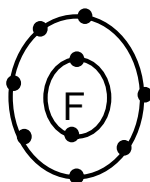
### Forming Ionic Compounds Worksheet Answers

1. Draw a Bohr Diagram of each element

Beryllium



Fluorine



Beryllium will **lose 2** electrons and form **Be<sup>2+</sup>**

Fluorine will **gain 2** electrons and form **F<sup>1-</sup>**

2. How many beryllium ions and how many fluorine ions are needed?

**one** ions of beryllium are needed

**two** ions of fluorine are needed

3. What is the chemical formula of the compound in question 2? **BeF<sub>2</sub>**

4. What is the name of the compound in question 3? **beryllium fluoide**

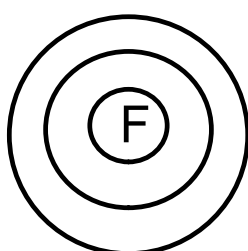
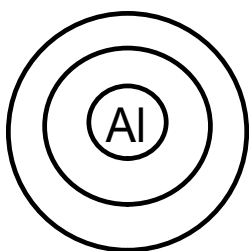
# Answers

## Ionic Compounds: Names and Formulas

1. How many atoms of potassium are in the molecule? **two**
2. How many atoms of oxygen are in the molecule? **one**
3. What is the name of the compounds  $K_2O$  ? **potassium oxide**
4. What two elements are in this compound?  
The two elements are **aluminum** and **sulphur**
5. How many atoms of each element are there?  
There are **two** atoms of **aluminum** and **three** atoms of **sulphur**
6. What is the name of  $Al_2S_3$  ? **aluminum sulphide**

### 3. Aluminum and Flourine

a) Al = metal                      F = nonmetal



- c) How many gained or lost?
- d) sketch how the compound forms
- e) ionic charges
- f) overall charge
- g) chemical formula

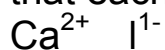
# How to Write an Ionic Compound Shortcut

no Bohr diagrams required

1. Write the symbols, with the metal always being written first



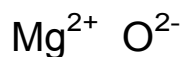
2. Write the ionic charge above the symbol to indicate the stable ion that each element forms.



3. Cross the numerical charge, writing it as a subscript.



4. Always reduce to the lowest numbers they can be i.e.



pg 195 # 3 - 6

## Attachments

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S10 answers pg 187 #1-4.doc

answers ionic charges and families worksheet A,B,C.notebook

answers forming ions WS2.notebook

answers pg 187 #5,6a-c,7a.notebook