

**CHAPTER 7 REVIEW***Chemical Formulas and Chemical Compounds***SECTION 7-1****SHORT ANSWER** Answer the following questions in the space provided.

1. C In a Stock name such as iron(III) sulfate, the roman numeral tells us \_\_\_\_\_
- how many atoms of Fe are in one formula unit
  - how many sulfate ions can be attached to the iron atom
  - the charge on each Fe ion
  - the total positive charge of the formula unit
2. C The result of changing a subscript in a correctly written chemical formula is to \_\_\_\_\_
- change the number of moles represented by the formula
  - change the charges on the other ions in the compound
  - change the formula so that it no longer represents the compound it previously represented
  - have no effect on the formula
3. The explosive TNT has the molecular formula  $C_7H_5(NO_2)_3$ .
- |  |   |
|--|---|
| <u>4 elements</u>                            | a. How many elements make up this compound?   |
| <u>6 oxygen atoms</u>                        | b. How many oxygen atoms are present in one molecule of $C_7H_5(NO_2)_3$ ?                      |
| <u>21 atoms</u>                              | c. How many atoms in total are present in one molecule of $C_7H_5(NO_2)_3$ ?                    |
| <u><math>4.2 \times 10^{24}</math> atoms</u> | d. How many atoms are present in a sample of $2 \times 10^{23}$ molecules of $C_7H_5(NO_2)_3$ ? |
4. How many atoms are present in each of these formula units?
- |                 |                         |
|-----------------|-------------------------|
| <u>11 atoms</u> | a. $Ca(HCO_3)_2$        |
| <u>45 atoms</u> | b. $C_{12}H_{22}O_{11}$ |
| <u>10 atoms</u> | c. $Fe(ClO_2)_3$        |
| <u>9 atoms</u>  | d. $Fe(ClO_3)_3$        |
5.  $N_2O_5$  a. What is the formula for the compound dinitrogen pentoxide?
- carbon(IV) sulfide b. What is the Stock name for the covalent compound  $CS_2$ ?
- $H_2SO_3$  c. What is the formula for sulfurous acid?
- phosphoric acid d. What is the name for the acid  $H_3PO_4$ ?

# Chapter 7 3 Answers Chemical Formulas And Chemical Compounds

**SA Dillow**



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