

Quiz: Ch 1 & 2
AP Chemistry
Version I (33 pts)

Name:

Date:

Period:

Complete the following problems and record the answer with the correct number of significant figures. Show your work.

1. (3 pts) $(25130 - 10135.57) / 100.6$
2. (3 pts) $(2638.5 + 4290) / 930.0$
3. (3 pts) Describe the difference between a heterogeneous mixture and a homogeneous mixture. Give an example of each type.

Provide the name or chemical formula (as needed) for the following compounds. (2 pts each)

4. NaNO _____
5. $(\text{NH}_4)_2\text{S}$ _____
6. Br_8Cl_3 _____
7. HCN _____
8. $\text{Mo}(\text{ClO}_2)_6 \cdot 7 \text{H}_2\text{O}$ _____
9. NiI_2 _____
10. Hydroxidic acid _____
11. Lithium dichromate _____
12. Rubidium superoxide _____
13. Vanadium (V) fluoride _____
14. Aluminum hydrogen borate _____
15. Stannous thiocyanate _____

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Complete the following problems and record the answer with the correct number of significant figures. Show your work.

1. (3 pts) $(9715.5 + 3) / 102.3$
2. (3 pts) $(52130 - 41485.38) / 389.20$
3. Describe the difference between a molecular formula and an empirical formula of a compound. Give an example to illustrate the difference.

Provide the name or chemical formula (as needed) for the following compounds. (2 pts each)

4. K_3BO _____
5. $LiNaHAsO_4$ _____
6. I_5N_4 _____
7. $HC_2H_3O_2$ _____
8. $W(SCN)_4 \cdot 9 H_2O$ _____
9. Zn_3P_2 _____
10. Hydronitric acid _____
11. Radium chromate _____
12. Beryllium peroxide _____
13. Titanium (III) iodide _____
14. Calcium dihydrogen phosphate _____
15. Plumbous nitrite _____

Quiz: Ch 1 & 2
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Version K (33 pts)

Name:

Date:

Period:

Complete the following problems and record the answer with the correct number of significant figures. Show your work.

1. (3 pts) $(2132.355 + 6) / 25.010$
2. (3 pts) $(310.4245 - 100) / 98.10$
3. Describe how the results of Robert Millikan's experiments were connected to those of J.J. Thompson.

Provide the name or chemical formula (as needed) for the following compounds. (2 pts each)

4. $B(ClO)_3$ _____
5. $RbBePO_4$ _____
6. S_3Cl_9 _____
7. $H_2C_2O_4$ _____
8. $Pd(CNS)_4 \cdot 7 H_2O$ _____
9. Cu_2Se_3 _____
10. Hydrocarbonic acid _____
11. Francium permanganate _____
12. Beryllium peroxide _____
13. Scandium fluoride _____
14. Potassium dihydrogen borate _____
15. Chromic sulfate _____