Gen Chem I (CHM 220) Fall 17 Dr. Hahn MWF 9 am Quiz I 8/23W Exam #
Name Print Name
Please show work on all questions for partial credit even on questions which do not specify. (25 total pts)
1. (a) Give the name of the element <u>Na</u> (2 pts)
sodium
(b) Give the symbol for the element <u>sulfur</u> (2 pts)
2. centimeter means 100 meters or 10 raised to what power 10 (don't forget sign) (4 pt, 2 pts each)
3. Significant Figures: Show work for determining correct number of significant figures in the following calculations. (2 pts)
988.798 - 200.1 + 1.0001 = 789.6981 (calculator number) correct # ( to correct sig fig) is $ \begin{array}{ccccccccccccccccccccccccccccccccccc$
4. For the element $\underline{\mathbf{N}}$ (nitrogen) answer the following (1/2 pts each blank, 4 pts total)
a) How many protons b) How many electrons for the neutral atom
c) Give the symbol in the format ${}^{A}X$ for the same element $\frac{74}{7}$
d) What group is the element in $5A$ e) What period is the element in $2$
f) What is the likely charge on the element $\frac{-3}{5}$ (1/2 pts) Explain or show work. (1/2 pts)
g) Is the element a [(metal) or (nonmetal)] $(+2)(a) + (-1)(w)_{3} = 2e_{10}$
5. Give the formula for the ionic compound made from the following element or polyatomic ion. (4 pts) (show work)  Ca - GP. 2 A - Ca + Conic.
Ca and (NO <sub>3</sub> -) $Ca(NO_3)$ $Ca(NO_3)$ $Ca(NO_3)$ $Ca(NO_3)$

6. Name the following: (2 pts) Covalent rolelle held # pre fix
ss. (#presylstnane Fretix) 2nd name
SFO (# prefy) st nane (frefix) 2nd nane mono-not needed (Usually leave out Mono)
sulfur hexafluoride
7. Convert from 2.35 lb to mg (453.5 g = 1 lb) Show work. (5 pts)
2.35/5 x 453,59 x 1000mg = 1065725. 3 sigfig 116 19 calulate of
Extra Credit Question: (Avogadro's number = $6.022 \times 10^{23}$ ) (4 pts)  Of the first that the f
19.29 x hollo x 6.022×10 - molar hass
8,09149 ×10 <sup>23</sup> 3 sigfig
8.10 × 10 <sup>23</sup> atoms Co

General Chemistry I (CHM 220) Fall 17 Dr. Hahn MWF 10 am Quiz I 8/23W Exam#
Name Print Name
Please show work on all questions for partial credit even on questions which do not specify. (25 total pts)
1. (a) Give the name of the element $\underline{\mathbf{K}}$ (2 pts)
potassium
(b) Give the symbol for the element <b>phosphorus</b> (2 pts)
$\mathcal{F}$
milliliter means 1000 liters or 10 raised to what power 10 (don't forget sign) (4 pts, 2pts each)
3. Significant Figures: Show work for determining correct number of significant figures in the following calculations. (2 pts)
(988.798 * 2.170) / (2.040) = 1051.809637 (calculator number) correct # (to correct sig fig) is
1052
4. For the element <b>S</b> (sulfur) answer the following (1/2 pt each blank, 4 pts total)
a) How many protons
c) Give the symbol in the format ${}^{A}X$ for the same element $\frac{32}{16}$
d) What group is the element in 6 A e) What period is the element in 3
f) What is the likely charge on the element $\frac{-2}{6}$ (1/2 pt) Explain or show work.(1/2 pt explain)
g) Is the element a [(metal) or (nonmetal)]
5. Give the formula for the ionic compound made from the following element or polyatomic ion. (4 pts) (show
(NH <sub>4</sub> <sup>+</sup> ) and (N) — $(5A)$ $(5A)$ $(5A)$ $(5A)$ $(5A)$
$NH4N$ $(NH4)_3N$
(+1)(M) = Zero

- 6. Given the name write out the formula. (2 pts)

  OVallet has #

  dinitrogen tetrachloride

  No Cly

  Prefix
- 7. Convert from 7899.34 inches to kilometers (2.54 cm = 1 inch) Show work. (5 pts)

7899.34 inclosx  $\frac{2.54cm}{1 \text{ incl}} \times \frac{1 \text{ m}}{100 \text{ cm}} \times \frac{\text{km}}{1000 \text{ m}} = 0.200643236 \rightarrow 0.200645$ 

Extra Credit Question: (Avogadro's number =  $6.022 \times 10^{23}$ ) (4 pts)

If you have 92.3 grams of the element Fe (iron), how many atoms of Fe do you have?

92.3g fe × Fe × 6.022×10<sup>23</sup> = 9.95×10<sup>23</sup>
55.85g Fe = Inal = C.022×10<sup>23</sup> atoms Fe
Fe Fe Fe

	Print Name
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	Significant Figures: Show work for determining correct number of significant figures in the ng calculations. (2 pts)
988.798	8 - 200.1 + 1.0001 = 789.6981 (calculator number) correct # ( to correct sig fig) is
988.798	
988.79	
	8 - 200.1 + 1.0001 = 789.6981 (calculator number) correct # ( to correct sig fig) is
4.	For the element $\underline{\mathbf{N}}$ (nitrogen) answer the following (1/2 pts each blank, 4 pts total)
4. a) How	For the element N (nitrogen) answer the following (1/2 pts each blank, 4 pts total) many protons b) How many electrons for the neutral atom ethe symbol in the format AX for the same element
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4. a) How c) Give d) What	For the element N (nitrogen) answer the following (1/2 pts each blank, 4 pts total)  many protons b) How many electrons for the neutral atom  the symbol in the format AX for the same element  group is the element in e) What period is the element in
4. a) How c) Give d) What	For the element N (nitrogen) answer the following (1/2 pts each blank, 4 pts total) many protons b) How many electrons for the neutral atom ethe symbol in the format AX for the same element tgroup is the element in e) What period is the element in established by the symbol in the element in e) What period is the element in established by the element es

6. Name the following: (2 pts)

 $SF_{6} \\$ 

7. Convert from 2.35 lb to mg (453.5 g = 1 lb) Show work. (5 pts)

Extra Credit Question: (Avogadro's number =  $6.022 \times 10^{23}$ ) (4 pts)

If you have 79.2 grams of the element  $\underline{\textbf{Co}}$  (cobalt), how many atoms of  $\underline{\textbf{Co}}$  do you have ?

Nam	Print Name
Pleas	e show work on all questions for partial credit even on questions which do not specify. (25 total pts)
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(b) G	ive the symbol for the element <u>phosphorus</u> (2 pts)
2.	milliliter means liters or 10 raised to what power (don't forget sign) (4 pts, 2pts each)
3. follo	Significant Figures: Show work for determining correct number of significant figures in the ving calculations. (2 pts)
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4. a) Ho	For the element <b>S</b> (sulfur) answer the following (1/2 pt each blank, 4 pts total) by many protons b) How many electrons for the neutral atom
a) Ho	
a) Ho	b) How many electrons for the neutral atom
a) Ho c) Gi d) W	we the symbol in the format ${}^{A}X$ for the same element
a) Ho c) Gi d) Wi f) Wh	we the symbol in the format AX for the same element  at group is the element in e) What period is the element in
a) Ho c) Gi d) Wi f) Wh	we the symbol in the format ${}^{A}X$ for the same element
a) Ho c) Gi d) Wi f) Wh g) Is t 5. work)	we the symbol in the format ${}^{A}X$ for the same element

- 6. Given the name write out the formula. (2 pts) dinitrogen tetrachloride
- 7. Convert from 7899.34 inches to kilometers (2.54 cm = 1 inch) Show work. (5 pts)

**Extra Credit Question**: (Avogadro's number =  $6.022 \times 10^{23}$ ) (4 pts)

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