CHM 151 Quiz 1b 25 Pts Fall 2007 Name: Key
Conversion factors: $k = 10^{30}$ c = 10^{-2} m = 10^{-3} n = 10^{-9} hr = 60 min. 1 min = 60 sec. 1 mile = 5280 ft 1 ft = 12 inches 2.54 cm = 1 inch
1. (6 Pts) A car is traveling at speed of 43 kilometers per hour. Determine its speed in ft per second.
$\frac{43 \text{ km/} 10^{3} 1 \text{ j/k}}{\text{be} k 2.54 \times 10^{-2} \text{ ph} 12 \text{ j/k} 3600 \text{ s}} = \frac{39}{5}$ (SAME as "E")
2. (6 Pts)a. Give the symbol and name for two elements that would be classified as non-metals:
b. Give the symbol and name for two elements that would be classified as metalloids:
c. Give the symbol and name for two elements that would be classified as metals:

Number of neutrons

24-11

35-17

4. (4 Pts) Rank the elements, iron, potassium, and bromine from largest to smallest (by atomic

Number of electrons

3. (9 Pts) Complete the following table.

Number of protons

Element or ION

Sodium-24

Potassium-39

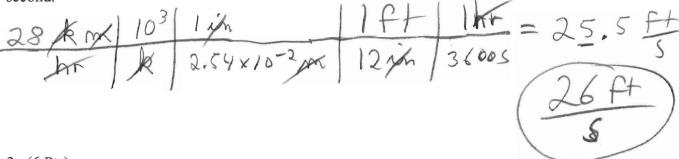
radii).

A chloride-35 ion

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5280 ft 1 ft = 12 inches 2.54 cm = 1 inch

1. (6 Pts) A car is traveling at speed of 28 kilometers per hour. Determine its speed in ft per second.



2. (0 Pts)	2.	(6	Pts)
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- a. Give the symbol and name for two elements that would be classified as metals:
 - . Give the symbol and name for two elements that would be classified as non-metals:
 - c. Give the symbol and name for two elements that would be classified as metalloids:
- 3. (9 Pts) Complete the following table.

Element or ION	Number of protons	Number of neutrons	Number of electrons			
Sodium-23	11	23-11 12	11			
Phosphorous-31	15	31-15 16	15			
A chloride-37 <i>ion</i>	17	20	18			

4. (4 Pts)	Rank the elements,	iron,	potassium,	and bromin	ne from	smallest to	largest	(by	atomic
radii).									