Chemistry EOC Review - Answer Key

- a. 68,200,000 cg
 b. 5000 mm
 c. 0.0125 kL
 d. 0.548 dm
- 2) -21.5 mL
- production of heat & light, formation of a gas, formation of a precipitate, color change
- 4) 33.64 g / 4.28 ml = 7.86 g/ml = Fe
- 5) m.p. -183°C = CH₄ (methane)
- 6) H₂ splint test (burning splint ignites hydrogen) O₂ – splint test (oxygen reignites glowing splint) H₂O – cobalt chloride paper (paper changes from blue to pink in the present of water vapor) CO₂ – splint test (carbon dioxide extinguishes burning splint);

limewater test (limewater turns cloudy when carbon dioxide is bubbled through it, producing CaCO₁)

- 7) The protons are <u>positively</u> charged particles found inside the <u>nucleus</u> along with the <u>neutrons</u>, which have no charge. The total number of these nucleons in an atom is the <u>mass # / atomic mass</u> of the atom. The electrons are the <u>negatively</u> charged particles found <u>orbiting in "clouds" around the nucleus</u>. Electrons can be gained by the atom to form <u>anions</u> or lost to form <u>cations</u>.
- 8) The thing that makes any element on the periodic table different from all other elements is the number of <u>protons</u> in its nucleus. <u>Isotopes</u> are atoms of the same type of element which have different <u>masses</u> because they have different numbers of <u>neutrons</u>.
- 9) a. ³⁶₁₉K *
 - b. ⁵⁷₂₆Fe
 c. ⁵³₁₆S²
- 105

chemical	atomic number	mass number	# of protons	# of electrons	# of neutrons	net charge
K.	19	42	19	18	2.3	+1
Sr	3-8	88	38	38	50	
F.	9	2:0	9	10	11	-3
P	1.5	31	15	15	1.6	0
Ca ²⁺	20	42	20	18	22	+2

- 11) uranium -238 238 92 = 146 neutrons
- 12) (1) 199.59g
 - (2) They contain the same # of protons (they are the same element), but different #s of neutrons (electrons don't matter, b/c they have virtually no mass), & thus different masses.

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Clemens Wendtner

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