

Please label as: **Set #2**

#14

Which set of elements contains a metalloid?

QOD
#14

- A Ba, Ag, Sn, Xe B K, Mn, As, Ar
 C Li, Mg, Ca, Kr D Fr, F, O, Rn

#16

What is the product of (2.324 cm x 1.11 cm) expressed to the correct # of significant figures?

- A 2.5796 cm² B 2.5780 cm²
 C 2.58 cm² D 2.578 cm²

#18

QOD #18

What are the number of protons, neutrons, & electrons in a neutral atom of phosphorus-30?

- A 15 p⁺, 15 n⁰, 30 e⁻ B 15 p⁺, 30 n⁰, 15 e⁻
 C 15 p⁺, 15 n⁰, 15 e⁻ D 30 p⁺, 15 n⁰, 30 e⁻

#20

QOD
#20

A sample of sulfur contains 3.01×10^{23} atoms. How many moles of sulfur are in the sample?

- A 1.80×10^{47} B 0.500
 C 2.00 D 3.01

#22

How many moles are equal to 500. grams of aluminum sulfate ($\text{Al}_2(\text{SO}_4)_3$)?

- a 1.46 moles b 3.01×10^{26} moles
- c 0.684 moles d 2.53 moles

#24

- A particle contains 6 protons, 7 neutrons, & 6 electrons. This particle must be a
- A neutral carbon atom B neutral nitrogen atom
- C positively-charged carbon ion
- D positively-charged nitrogen ion