Chapter 2 Practice Problems

What does "X" represent in the following symbol?

14 X Atomic H

- (A) silicon
- B) sulfur C) zinc
- D) ruthenium
- E) nickel
- 2. Determine the number of protons, neutrons and electrons in the following: 40 X P: 18 C: 18

0:55

3. Determine the number of protons, neutrons and electrons in the following: 65

P: 29 C:29

3 6
What element is defined by the following information?

p+ = 17 n° = 20 e- = 17

CI

5. What species is represented by the following information?

p+=12 n°=14 e-=10

Predict the charge that an aluminum ion would have.

3A = +3

7. Predict the charge that a calcium ion would have.

54= A5

 Calculate the atomic mass of silver if silver has 2 naturally occurring isotopes with the following masses and natural abundances:

Ag-107 106.90509 amu (.518) \$1.84% = \$5.42 > = 108.7 Ag-109 108.90476 amu(.48) \$4.46% = \$2.78' > = 108.7

9. There are 54 electrons, 54 protons, and 78 neutrons in an atom of 122 Xe.

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Siddappa N.Byrareddy

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