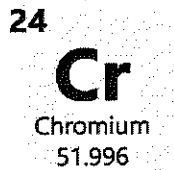


Atomic structure - Practice for Proficiency (practice test)**Multiple Choice**

Identify the choice that best completes the statement or answers the question.

- E 1. (#7) The atomic number indicates
- the number of neutrons in a nucleus
 - the total number of neutrons and protons in a neutral atom
 - the number of protons or electrons in a neutral atom
 - the number of atoms in 1 gram of an element
 - the number of protons in the element
- C 2. The part of the atom that takes up the most space
- Nucleus
 - Proton
 - Electron Cloud
 - Neutrons
- A 3. Where in an atom, is all the mass located?
- Nucleus
 - Proton
 - Electron Cloud
 - Neutron
- C 4.



The symbol of above indicates

- Chromium has 24 proton
 - The most common Isotope of Chromium is likely Cr-52
- I only
 - II only
 - Both I and II
 - Neither I or II

For the following questions use the following information

A scientists analyzes a sample atoms of lead ions in a water sample finding the following information.

Sample A:

Total mass of the atom = 207amu/atom

Total electrons = 80

Sample B:

Total mass of the atom 208amu/atom

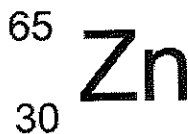
Total electrons = 82

- C 5. (using chart above)
- The number of protons in the sample A is
- 80
 - 207
 - 82
 - This can not be determined

Name: _____

ID: A

- C 6. (using chart above)
The number of protons in the sample B is
a. 50
b. 207
c. Same as sample A
d. This can not be determined
- A 7. (using chart above)
Sample A and sample B are on considered (respectively)
a. Cation/neutral
b. Anion/neutral
c. Cation/anion
d. Anion/cation
- C 8. (using chart above)
When comparing sample A with sample B the scientist used the word isotope. This is
a. True, because the have the same charge
b. True, because the are the same element
c. True, because the are the same element but different weights.
d. False, because they are the same element.
- B 9. Cu-63 has how many neutrons
a. 29
b. 32
c. 63
d. 64
- A 10.



A student determines the mass number of this atom to be

- a. 65
b. 30
c. 35
d. Can not be determined by this diagram

C 11.



The number of electrons in this atom is

- a. 15
b. 8
c. 10
d. 6

