

Exercise 2.12– Sub-atomic particles

Q212-01 ^{40}Ca , ^{39}K , and ^{41}Sc all have the same...

- A. number of electrons.
 - B. atomic number.
 - C. mass number.
 - D. number of neutrons.
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Q212-02 If a neutral atom has an atomic number of 29 and a mass number of 61, then the atom must contain

- A. 90 neutrons
 - B. 61 electrons
 - C. 29 neutrons
 - D. 29 electrons
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Q212-03 Atom X has 9 protons, 9 electrons, and 10 neutrons. Atom Y has 10 protons, 10 electrons, and 9 neutrons. It can therefore be concluded that

- A. atom X and Y are isotopes.
 - B. atom X is more massive than atom Y.
 - C. atoms X and Y have the same mass number.
 - D. atoms X and Y have the same atomic number.
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Q212-04 A proton has approximately the same mass as:

- A. a neutron
 - B. an alpha particle
 - C. a beta particle
 - D. an electron
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Q212-05 What is the mass number of an atom which contains 28 protons, 28 electrons, and 34 neutrons?

- A. 28
 - B. 56
 - C. 62
 - D. 90
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Q212-06 Which atom contains exactly 15 protons?

- A. P-32
 - B. S-32
 - C. O-15
 - D. N-15
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Q212-07 Which one of the following statements is not true about the atom ^{81}Rb ?

- A. It has mass number 35
 - B. It contains 35 electrons
 - C. It contains 46 neutrons
 - D. Its nucleus contains 81 particles
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Q212-08 What is the mass number of an atom which contains 26 protons, 26 electrons, and 30 neutrons?

- A. 28
 - B. 56
 - C. 62
 - D. 90
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Q212-09 Which of the following statements is INCORRECT?

- A. Protons are found in the nucleus of an atom
 - B. Neutrons have no charge
 - C. Electrons have a mass of 1 atomic mass unit
 - D. The nucleus contains most of the atomic mass
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Q212-10 Which of the following statements about numbers of sub-atomic particles is CORRECT?

- A. electrons plus neutrons equals protons
 - B. protons minus neutrons equals atomic number
 - C. neutrons plus protons equals mass number
 - D. mass number minus electrons equals protons
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