

Particle identification from protons, neutrons, and electrons.

In each case, identify the particle.

1. An atom with 8 protons and two fewer neutrons as a $^{19}\text{F}_9$ atom.
2. An atom with one more proton and four more number of neutrons than an atom of ^{40}Ca .
3. An atom with 10 protons and the same number of neutrons as an atom of ^{24}Mg
4. An atom with one fewer proton and the same number of neutrons as an atom of ^{66}Zn
5. An atom with the same number of protons and two more neutrons as an atom of ^{72}Ge
6. An atom with two fewer protons and two more neutrons as an atom of ^{50}Cr
7. An ion with one more proton and two more neutrons as an atom of ^{20}Ne but the same number of electrons
8. An ion with two fewer protons and six fewer neutrons as an atom of ^{40}Ar but four less electrons
9. An ion with two more protons and two more neutrons as an atom of ^{60}Ni but the same number of electrons
10. An ion with two more protons and three more neutrons as an atom of ^{20}Ne but the same number of electrons
11. An ion with one more proton and three more neutrons but the same number of electrons as an ion of $^{85}\text{Rb}^+$
12. A particle with two fewer protons, four fewer neutrons, and the same number of electrons as an atom of ^{36}Kr
13. A particle with one fewer proton, one fewer neutron, and one more electron as a $^{44}\text{Ru}^{2+}$ ion
14. A particle with one fewer proton, three fewer neutrons, and the same number of electrons as a $^{127}\text{Xe}^{2+}$ ion



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