Name	Date	Class
1401110	DUIO	OIGOU

11-1 Practice Problems

- **1.** How many protons and electrons are present in a vanadium atom?
- **8.** What is the name of the element that has atoms that contain 25 protons?
- **2.** How many protons and electrons are present in a nitrogen atom?
- **9.** What is the name of the element that has atoms that contain 82 protons?
- **3.** How many protons and electrons are present in an argon atom?
- **10.** What is the name of the element that has atoms that contain 92 protons?
- **4.** How many protons and electrons are present in a potassium atom?
- 11. Write the chemical symbol for the ion with 12 protons and 10 electrons.
- **5.** How many protons and electrons are present in a platinum atom?
- 12. Write the chemical symbol for the ion with 74 protons and 68 electrons.
- **6.** What is the name of the element that has atoms that contain 5 protons?
- **13.** Write the chemical symbol for the ion with 95 protons and 89 electrons.
- 7. What is the name of the element that has atoms that contain 17 protons?
- **14.** Write the chemical symbol for the ion with 33 protons and 36 electrons.

11-1 Practice Problems (continued)

- 15. Write the chemical symbol for the ion with 29 protons and 27 electrons.
- 21. How many protons, neutrons, and electrons are present in the ¹³₆C⁴ ion?

- 16. How many protons, neutrons, and electrons are present in the 59 Ni²⁺ ion?
- 22. Write the complete chemical symbol for the ion with 84 protons, 125 neutrons, and 80 electrons.
- 17. How many protons, neutrons, and electrons are present in the 40 Zr4+ ion?
- 23. Write the complete chemical symbol for the ion with 27 protons, 32 neutrons, and 25 electrons.
- 18. How many protons, neutrons, and electrons are present in the ¹⁴⁰₅₈Ce³⁺ ion?
- 24. Write the complete chemical symbol for the ion with 73 protons, 108 neutrons, and 68 electrons.
- **19.** How many protons, neutrons, and electrons are present in the ⁷⁹₃₄Se²⁻ ion?
- 25. Write the complete chemical symbol for the ion with 31 protons, 39 neutrons, and 28 electrons.
- **20.** How many protons, neutrons, and electrons are present in the ⁴⁵₂₁Sc³⁺ ion?