

Name: _____

Who Am I?

These mystery elements are waiting to be identified. The trick is you'll need the Periodic Table to unmask their identities. Unless you have it memorized, you'll need a copy of the table from your science book or from page 119 of this book. Read the clues about each mystery element, figure out what it is, and then write the name and symbol of the element.

The Atomic number equals the number of protons. Atomic mass equals the number of protons plus neutrons. The number of electrons equals the number of protons.

- | | |
|-----------|-----------|
| 1. _____ | 11. _____ |
| 2. _____ | 12. _____ |
| 3. _____ | 13. _____ |
| 4. _____ | 14. _____ |
| 5. _____ | 15. _____ |
| 6. _____ | 16. _____ |
| 7. _____ | 17. _____ |
| 8. _____ | 18. _____ |
| 9. _____ | 19. _____ |
| 10. _____ | 20. _____ |

The diagram shows a hand-drawn periodic table with 20 mystery elements marked with numbers and clues. The clues are as follows:

- 1**: Nonmetal, halogen family, atomic mass 35
- 2**: 25 electrons, transition element
- 3**: gas, 48 neutrons
- 4**: period 2, atomic mass 11
- 5**: nonmetallic, period 3, atomic mass 32
- 6**: protons, period 4, transition element
- 7**: 12 neutrons, metallic, 11 electrons
- 8**: 29 electrons, period 4
- 9**: atomic mass 20, gas
- 10**: period 5, transition element, 51 neutrons
- 11**: 80 electrons, transition element
- 12**: period 4, lowest mass in period
- 13**: metallic, period 4, 20 electrons
- 14**: period 6, gas, 86 protons
- 15**: 4 neutrons, metallic
- 16**: period 4, metallic, 27 electrons
- 17**: metallic, period 6, 56 protons
- 18**: gas, atomic mass 16, 8 neutrons
- 19**: mass less than 30, not noble gas
- 20**: period 5, metallic, 38 electrons