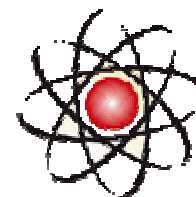


Name: _____ Date: _____
Chemistry

Worksheet

Quantum Numbers and Electrons



Directions: Determine the best answer for each of the following.

- _____ 1. How many electrons are in Carbon's 2s orbital?
- _____ 2. How many positions does any d-sublevel have?
- _____ 3. How many electrons fit in any one orbital?
- _____ 4. How many electrons can fit in principle energy level 3?
- _____ 5. How many 3p electrons does Phosphorus have?
- _____ 6. How many p electrons does Phosphorus have?
- _____ 7. How many s electrons does Cesium have?

- _____ 8. How many 5d electrons does Hg have?
- _____ 9. How many d electrons does Hg have?
- _____ 10. How many valence electrons does Ge have?
- _____ 11. How many valence electrons does Iodine have?
- _____ 12. How many electrons does Antimony need to fill its valence shell?
- _____ 13. How many electrons does Bromine need to fill its valence shell?
- _____ 14. What charge does Bromine form?

- _____ 15. How many valence electrons does Barium have?
- _____ 16. How many electrons will Strontium lose to satisfy the octet rule?
- _____ 17. What charge does Strontium ion have in compounds?
- _____ 18. How many s electrons does K^+ have?
- _____ 19. How many 3p electrons does Chloride ion have?
- _____ 20. How many p electrons does Xenon have?
- _____ 21. How many valence electrons does Xenon have?

“Success is found in our habits.” --Wiseman