

An element symbol can stand for one atom of the element or one mole of atoms of the element.  
(1 mole =  $6.02 \times 10^{23}$  atoms of an element)

Write the symbol for the following elements:

- |             |       |               |       |
|-------------|-------|---------------|-------|
| 1. oxygen   | _____ | 11. plutonium | _____ |
| 2. hydrogen | _____ | 12. americium | _____ |
| 3. chlorine | _____ | 13. germanium | _____ |
| 4. mercury  | _____ | 14. zinc      | _____ |
| 5. fluorine | _____ | 15. arsenic   | _____ |
| 6. barium   | _____ | 16. lead      | _____ |
| 7. helium   | _____ | 17. iron      | _____ |
| 8. uranium  | _____ | 18. calcium   | _____ |
| 9. radon    | _____ | 19. cobalt    | _____ |
| 10. sulfur  | _____ | 20. radium    | _____ |

Write the name of the element that corresponds to each of the following symbols:

- |        |       |        |       |
|--------|-------|--------|-------|
| 21. Kr | _____ | 31. Cu | _____ |
| 22. K  | _____ | 32. Ag | _____ |
| 23. C  | _____ | 33. P  | _____ |
| 24. Ne | _____ | 34. Mn | _____ |
| 25. Si | _____ | 35. I  | _____ |
| 26. Zr | _____ | 36. Au | _____ |
| 27. Sn | _____ | 37. Mg | _____ |
| 28. Pt | _____ | 38. Ni | _____ |
| 29. Na | _____ | 39. Br | _____ |
| 30. Al | _____ | 40. Hg | _____ |