



Chem Skills Worksheet #3: Significant Figures

A. Determine the number of significant figures in each of the following:

| | | Number of Significant figures |
|-----|---------|-------------------------------|
| 1. | .93 | |
| 2. | 340 | |
| 3. | 0.097 | |
| 4. | 39.5 | |
| 5. | 0.09305 | |
| 6. | 38.05 | |
| 7. | 0.00760 | |
| 8. | 1.008 | |
| 9. | 10001 | |
| 10. | 15.96 | |

| | | Number of Significant figures |
|-----|--------------------|-------------------------------|
| 11. | 10100 | |
| 12. | 1.95×10^3 | |
| 13. | 89050. | |
| 14. | 3.9×10^3 | |
| 15. | 9963 | |
| 16. | 7002 | |
| 17. | 600 | |
| 18. | .004560 | |
| 19. | 541.005 | |
| 20. | 0.00035 | |

B. Provide the symbol for each element and round the atomic masses to 3 significant figures.

| | Element name | Element Symbol | Atomic Mass (amu) | Atomic Mass rounded to 3 significant figures (amu) |
|-----|--------------|----------------|-------------------|--|
| 21. | Aluminum | | 26.98514 | |
| 22. | Carbon | | 12.011 | |
| 23. | Hydrogen | | 1.0079 | |
| 24. | Mercury | | 200.59 | |
| 25. | Uranium | | 238.029 | |
| 26. | Gold | | 196.9665 | |
| 27. | Cesium | | 132.90 | |
| 28. | Barium | | 137.3125 | |
| 29. | Argon | | 39.9485 | |
| 30. | Magnesium | | 24.3102 | |