

Name: _____

Block: _____

Chemistry 11

Significant Figures in Calculations - Add / Subtract

Directions: Add/Sub 2-40 (evens only) in the normal fashion rounding off to the least # of decimal places.

RULES:

When adding and subtracting numbers with different number of significant figures, add or subtract in the normal fashion, then round the answer to the LEAST number of decimal places of any number in the problem.

When adding and subtracting numbers in scientific notation be sure that the powers of ten is the same

- | | | | |
|--|----------|---------------------------------|---------------|
| 1. $2.3456 + 2.34$ | | 21. $89.65787 - 75.23$ | |
| 2. $9.785 + 8.3$ | 18.1 | 22. $12.356 - 6.235$ | 6.121 |
| 3. $0.0007 + 0.01$ | | 23. $2.356 - 1.023$ | |
| 4. $963.25 + 3$ | 966 | 24. $0.0198563 - 0.000125$ | 0.0197 |
| 5. $100.256 + 12.35456$ | | 25. $0.23658 - 0.01$ | |
| 6. $78.54 + 0.002$ | 78.54 | 26. $12.3569 - 8.65$ | 3.71 |
| 7. $79.6589 + 0.00001$ | | 27. $87.456 - 9.365$ | |
| 8. $2.356 + 9.56 + 4.256$ | 16.17 | 28. $102.35 - 32.659$ | 69.69 |
| 9. $10.0 + 12.3568 + 9$ | | 29. $12.3769 - 12.356$ | |
| 10. $987.236 + 987.5469$ | 1884.783 | 30. $4800 + 123$ | 4923 |
| 11. $10.23 + 0.01 + 1$ | | 31. $4899 + 3$ | |
| 12. $87.236 + 12.0 + 125.23$ | 224.5 | 32. $125,000 + 1400$ | 126 400 |
| 13. $7.986 + 10.2 + 1.02 + 3.256$ | | 33. $12,569,000 - 3560$ | |
| 14. $789.356 + 78.569 + 12.3658$ | 880.291 | 34. $489.236 - 12$ | 477 |
| 15. $1.0256 + 1.2356 + 1.2000$ | | 35. $45.23659 + 0.00000001$ | |
| 16. $789.65 + 123.569 + 2.35$ | 915.57 | 36. $(4.2536 + 5.3) - 7.2536$ | 2.3 |
| 17. $0.000008 + 0.001 + 0.0000009$ | | 37. $(85.659 - 79.0256) + 12$ | |
| 18. $0.00236 + 0.002569 + 0.01145$ | 0.01637 | 38. $4,200,000,000 + 1,005,000$ | 4 201 005 000 |
| 19. $12.365 + 7.56 + 2.2356 + 5.0 + 6$ | | 39. $(78.2365 + 2.3) - 80$ | |
| 20. $8.256 + 9.235 + 7.256 + 12.356$ | 37.103 | 40. $2300 + 4$ | 2304 |