

Name: _____

RULES

Period: _____

- 1-Non-zero digits are always significant.
- 2-Any zeros between two significant digits are significant.
- 3-A final zero or trailing zeros in the decimal portion

ONLY are significant.

Example: .500 or .632000 the zeros are significant
.006 or .000968 the zeros are NOT

Chemistry 11

Determining Significant Zeros

Directions: Determine the number of significant figures in the following numbers.

ODDS ONLY

- | | | |
|------------------------|-------------------------|------------------------|
| 1. 1,000 <u>1</u> | 24. 0.321000 _____ | 47. 5.10 <u>3</u> |
| 2. 1250 _____ | 25. 12.3600 <u>6</u> | 48. 56.3600 _____ |
| 3. 45068 <u>5</u> | 26. 1.2005 _____ | 49. 79.6003 <u>6</u> |
| 4. 120,360 <u>6</u> | 27. 0.012 <u>2</u> | 50. 8.230014 _____ |
| 5. 9.670 <u>4</u> | 28. 0.36900 _____ | 51. 0.02 <u>1</u> |
| 6. 1.02560 _____ | 29. 5.4700 <u>5</u> | 52. 0.020 _____ |
| 7. 1025.6540 <u>8</u> | 30. 1,000,200 _____ | 53. 0.002000 <u>4</u> |
| 8. 102,300 <u>4</u> | 31. 1,000,000 <u>1</u> | 54. 0.00200503 _____ |
| 9. 160 <u>2</u> | 32. 1,000,001 _____ | 55. 1.003 <u>4</u> |
| 10. 140.3 _____ | 33. 8.5600 <u>5</u> | 56. 1,003,900 _____ |
| 11. 0.00015 <u>2</u> | 34. 0.320020 _____ | 57. 7.986 <u>4</u> |
| 12. 0.102400 _____ | 35. 1.203600 <u>7</u> | 58. 8.9653 _____ |
| 13. 12.00 <u>4</u> | 36. 78.985600 _____ | 59. 5.63201 <u>6</u> |
| 14. 3.0025 _____ | 37. 7963.2504 <u>8</u> | 60. 0.0236500 _____ |
| 15. 5.6980012 <u>8</u> | 38. 7900.1003 _____ | 61. 4.25600 <u>6</u> |
| 16. 0.4158900 _____ | 39. 7.9805 <u>5</u> | 62. 1.0023650 _____ |
| 17. 2.36901 <u>6</u> | 40. 0.00015603 _____ | 63. 4,560,000 <u>3</u> |
| 18. 0.002 _____ | 41. 0.01236500 <u>7</u> | 64. 956,000,000 _____ |
| 19. 909 <u>3</u> | 42. 1.000125 _____ | 65. 5.639000 <u>7</u> |
| 20. 10.0 _____ | 43. 4.69003 <u>6</u> | 66. 654.01200 _____ |
| 21. 10 <u>1</u> | 44. 1.0024500 _____ | 67. 9.600 <u>4</u> |
| 22. 10.1010 _____ | 45. 7.96300 <u>6</u> | 68. 8.00 _____ |
| 23. 5.87400 <u>6</u> | 46. 1,569,000 _____ | 69. 9.6358 <u>5</u> |