| Log Scale Guide |  |  |  |
| :---: | :---: | :---: | :---: |
| x | Expontent that 10 needs to be raised to to give you the number in the $X$ column ( $\log$ X) | Percentage of the distance to $X$ (Log X ) | Percentage of the distance from 1 to 2 |
| 10.0 | 1.0000 | 100\% |  |
| 9.0 | 0.9542 | 95\% |  |
| 8.0 | 0.9031 | 90\% |  |
| 7.0 | 0.8451 | 85\% |  |
| 6.0 | 0.7782 | 78\% |  |
| 5.0 | 0.6990 | 70\% |  |
| 4.0 | 0.6021 | 60\% |  |
| 3.0 | 0.4771 | 48\% |  |
| 2.0 | 0.3010 | 30\% | 100\% |
| 1.9 | 0.2788 | 28\% | 93\% |
| 1.8 | 0.2553 | 26\% | 85\% |
| 1.7 | 0.2304 | 23\% | 77\% |
| 1.6 | 0.2041 | 20\% | 68\% |
| 1.5 | 0.1761 | 18\% | 58\% |
| 1.4 | 0.1461 | 15\% | 49\% |
| 1.3 | 0.1139 | 11\% | 38\% |
| 1.2 | 0.0792 | 8\% | 26\% |
| 1.1 | 0.0414 | 4\% | 14\% |
| 1.0 | 0.0000 | 0\% | 0\% |
| For example: |  |  |  |
| $10^{1.000}=10$ |  | $10^{0.3010}=2.0$ |  |
| $10^{0.9031}=8$ |  | $10^{0.1761}=1.5$ |  |
| $10^{0.6990}=5$ |  | $10^{0.0414}=1.1$ |  |


| Log Scale Guide |  |  |  |
| :---: | :---: | :---: | :---: |
| X from 1 to 10 | Expontent that 10 needs to be raised to to give you the number in the $X$ column (log X) | $X$ from 1 to 2 | Expontent that 10 needs to be raised to to give you the number in the $X$ column (log X) |
| 10 | 1.0000 | 2.0 | 0.3010 |
| 9 | 0.9542 | 1.9 | 0.2788 |
| 8 | 0.9031 | 1.8 | 0.2553 |
| 7 | 0.8451 | 1.7 | 0.2304 |
| 6 | 0.7782 | 1.6 | 0.2041 |
| 5 | 0.6990 | 1.5 | 0.1761 |
| 4 | 0.6021 | 1.4 | 0.1461 |
| 3 | 0.4771 | 1.2 | 0.0792 |
| 2 | 0.3010 | 1.1 | 0.0414 |
| 1 | 0.0000 | 1.0 | 0.0000 |
| For example: |  |  |  |
| $10^{1.000}=10$ |  | $10^{0.3010}=2.0$ |  |
| $10^{0.6990}=5$ |  | $10^{0.1761}=1.5$ |  |
| $10^{0.3010}=2$ |  | $10^{0.0414}=1.1$ |  |

