

Order of Magnitude

State how many order of magnitude difference for each value below.

Example: 1.5×10^5 and 2.5×10^2 has a magnitude difference of 3

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|---|-------------------|
| 1. 1.5×10^{14} and 3.3×10^{22} | Difference= _____ |
| 2. 4.6×10^{19} and 5.4×10^{25} | Difference= _____ |
| 3. 8.1×10^3 and 6.3×10^9 | Difference= _____ |
| 4. 9.7×10^5 and 2.8×10^{24} | Difference= _____ |
| 5. 4.3×10^8 and 4.5×10^{19} | Difference= _____ |
| 6. 5.6×10^2 and 3.5×10^2 | Difference= _____ |
| 7. 1.1×10^{-8} and 7.8×10^2 | Difference= _____ |
| 8. 9.9×10^{-17} and 9.0×10^{12} | Difference= _____ |
| 9. 3.7×10^{-9} and 3.7×10^{-1} | Difference= _____ |
| 10. 7.7×10^{-13} and 1.9×10^6 | Difference= _____ |
| 11. 2.1×10^{-8} and 2.2×10^7 | Difference= _____ |
| 12. 4.2×10^0 and 8.4×10^8 | Difference= _____ |
| 13. 8.7×10^{-7} and 8.0×10^0 | Difference= _____ |
| 14. 6.5×10^{-2} and 7.5×10^2 | Difference= _____ |
| 15. 8.0×10^{-6} and 4.0×10^8 | Difference= _____ |

Round the following numbers to the place stated:

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|---|--|
| 16. Round to the nearest 10: 35 | 20. Round to the nearest 1000 th : 345.6789 |
| 17. Round to the nearest 10: 43 | 21. Round to the nearest 100 th : 45.996 |
| 18. Round to the nearest 100: 10067 | 22. Round to the nearest 100 th : 46.001 |
| 19. Round to the nearest 10 th : 33.2 | |
| 23. Round to the nearest 100 th : 489.999951 | |

Round the following numbers to 4 significant figure:

24. 45674

25. 54321

26. 1.3822

27. 0.0045665

28. 0.0537652

29. 9.89952

Round the following numbers to the correct number of digets.

<u>Number</u>	<u>5 digits</u>	<u>4 digits</u>	<u>3 digits</u>	<u>2 digits</u>
30. 5.13159	_____	_____	_____	_____
31. 8.59350	=====	=====	=====	=====
32. 7.15893	_____	_____	_____	_____
33. 9.98998	_____	_____	_____	_____