

Chemistry Exponent Practice

NAME _____

Per. _____

Convert to powers of ten

1. 1000
2. 0.0010
3. 1,000,000
4. 0.00000001
5. 1,000,000,000,000,000
6. 0.000001

Answer

Convert to decimal notation

7. 10^2
8. 10^8
9. 10^{-2}
10. 10^{-4}
11. 10^{10}
12. 10^{-10}

Perform the mathematical procedure (Multiplication) (EXP, EE, 10^x)

13. $10^3 \times 10^6$
14. $10^{15} \times 10^5$
15. $10^{-3} \times 10^{-2}$
16. $10^{-4} \times 10^{-8}$
17. $10^6 \times 10^{-4}$
18. $10^{-10} \times 10^6$
19. $10^{-4} \times 10^{-8} \times 10^{16}$
20. $10^{15} \times 10^7 \times 10^{-12} \times 10^{-4}$

Perform the mathematical procedure (Division)

(EXP, EE, 10^X)

Answer

21. $10^6 / 10^3$

22. $10^{15} / 10^5$

23. $10^{-3} / 10^{-2}$

24. $10^{-4} / 10^{-2}$

25. $10^{-6} / 10^{-4}$

26. $10^{-10} / 10^6$

27. $10^{-8} / 10^{-12}$

28. $(10^{-4} \times 10^{-8}) / 10^{16}$

29. $(10^5 \times 10^7) / (10^{-2} \times 10^{-8})$

30. $(10^8 \times 10^2) / (10^{-4} \times 10^{-10})$

Perform the mathematical procedure (Addition & Subtraction, "Like Powers")

Answer

31. $10^3 + 10^5$

32. $10^2 + 10^6$

33. $10^4 - 10^2$

34. $10^6 - 10^4$

35. $10^4 + 10^2 + 10^6$

36. $10^8 + 10^4 - 10^5$
