Chemistry 11
Significant Figures in Calculations – Multiply / Divide

Directions: Multiply/divide 2-40 (evens only) in the normal fashion rounding off to the least # of significant figures.

RULES:

When multiplying or dividing numbers with different number of significant figures, multiply or divide in the norm
fashion, then round the answer to the LEAST number of significant figures of any number in the problem.
When multiplying numbers in scientific notation, you add exponents; when dividing numbers in scientific notatio
you subtract exponents

1. 0.23598×6598.32

2. 258.658×0.02569

3. 124.356×1000.3

4. 1245.6×654

5. 12478×0.00057

6. 98756×12569

7. $0.00256 \times 0.002536036$

8. 10000×230000

9. $1.0000 \times 10^5 \bullet 2.3569 \times 10^7$

10. 12569.32569×1235

11. $45698.35856 \times 12.2456$

12. $123669589 \times 12563659$

13. 0.003256×125

14. $8695.23 \times 0.000120300$

15. 85475×45632

16. 987.1236×459

17. $1.000098 \times 10^2 \bullet 965.2356 \times 10^4$

18. 9.6383×0.002356

19. 2158.695×1456

20. 0.2365×9.65874

21. $325.23 / 2569.32$

22. $124.23 / 568$

23. $0.01256 / 0.00001256$

24. $9587.32 / 4569$

25. $(9.356 \times 3.325) / 21.300$

26. $(10.235 \times 3.25) / 0.0023658$

27. $(12.356 \times 0.9987) / 2.356$

28. $(6.458 \times 1.2350) / 4.569$

29. $(125.236 \times 12.30) / 526.987$

30. $(2.356 \times 0.01256) / 124$

31. $(1.235 \times 0.0231) / 23$

32. $(4.2545 \times 0.0003200) / 456.39$

33. $(45.2 \times 6.235) / 0.023560$

34. $(1.235 \times 6.523) / 8.00$

35. $(1.01020 \times 23.2156) / 1000.0$

36. $(45.236 / 9.563) \times 2.325$

37. $(789.652 / 165.3) \times 4.00 \bullet 10^1$

38. $(356.245 / 98.5) \times 1.02$

39. $(85.36 / 9.0) \times 0.00356$

40. $(45.369 \times 2.001) / 4.9$