Chemistry I Honors

Review of Significant Figures and Operations with Significant Figures

For problems 1 through 20, how many significant figures are in each of the measured values?

1. 0.58740 m
2. 1,000.0 m
3. 5,050 m
4. 600,001 m
5. 720 m
6. 3,506 m
7. 6,000,008 m
8. 410. m
9. 0.10001 m
10. 900,000,000,000 m
11. 3.6840 m
12. 68.740050 m
13. 0.002569000 m
14. 6.014050 m
15. 0.015000 m
16. 300.00 m
17. 165.0100 m
18. 0.60600 m
19. 5,250,000 m
20. 60.500 m
21. Write the following values in scientific notation with the same number of significant figures as given.
    1. 0.0088520
    2. 5,250,000,000
    3. 0.00004730
22. Write the following values in standard form with the same number of significant figures as given.
    1. 1.567 x 101
    2. 7.5 x 106
    3. 2.80 x 10-7