

## Practicing with Significant Figures 1.203

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Tell how many significant figures are contained in each of the following numbers.

- |    |           |       |     |                          |       |
|----|-----------|-------|-----|--------------------------|-------|
| 1. | 30.1      | _____ | 6.  | $5 \times 10^{18}$       | _____ |
| 2. | 3,000,002 | _____ | 7.  | $9.7450 \times 10^{11}$  | _____ |
| 3. | 0.00613   | _____ | 8.  | $1.00100 \times 10^{-7}$ | _____ |
| 4. | 0.05500   | _____ | 9.  | 566.0000                 | _____ |
| 5. | 11.0      | _____ | 10. | 0.000005                 | _____ |

Round each of the following numbers to THREE significant figures.

- |     |                          |       |
|-----|--------------------------|-------|
| 11. | 0.43699                  | _____ |
| 12. | 27.25111                 | _____ |
| 13. | $1.487 \times 10^{-7}$   | _____ |
| 14. | 9.00000                  | _____ |
| 15. | 134.5                    | _____ |
| 16. | 0.4475                   | _____ |
| 17. | $1.009 \times 10^{-14}$  | _____ |
| 18. | $5.4157 \times 10^{97}$  | _____ |
| 19. | $6.0000 \times 10^{43}$  | _____ |
| 20. | $1.1111 \times 10^{-66}$ | _____ |
| 21. | 50,000,000,000.          | _____ |

Perform the following calculations and answer with the correct number of significant figures.

- |     |                             |       |
|-----|-----------------------------|-------|
| 22. | $28 \times 739$             | _____ |
| 23. | $8134 / 21.0$               | _____ |
| 24. | $99.99 \times 0.000022$     | _____ |
| 25. | $20.08 + 98.310 + 184.7593$ | _____ |
| 26. | $5.1 + 358.467 + 2.00048$   | _____ |
| 27. | $100.00 - 0.999$            | _____ |
| 28. | $9.0 - 0.0019$              | _____ |
| 29. | $100 / 3$                   | _____ |
| 30. | $1500000. / 3.000$          | _____ |

