

Significant Figures

State how many significant figures each of the following values has

Example: 15000 has 2 significant figures or 0.00123 has 3 significant figures

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|---------------------|-------------------------|
| 1. 68,000 = _____ | 2. 0.00678 = _____ |
| 3. 15,800 = _____ | 4. 156,200 = _____ |
| 5. 14,900.0 = _____ | 6. 475,000, 000 = _____ |

Perform the operation and then record the answer and the number of significant digits in the answer.

Example: 15000 * 870 = 13,050,000 which should only have 2 significant figures so the correct value is 13,000,000
or 67.58 + 34.2 = 101.78 which should only have the precision of the tenths spot so the answer is 101.8.

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|-------------------------|--|--|
| 7. 67.35 * 47.2 = | | |
| 8. 16.75 + 4.32 = | | |
| 9. 25000 * 4200.0 = | | |
| 10. 895.000 * 32670 | | |
| 11. 96.34 - 4.3 = | | |
| 12. 3.25 ² = | | |
| 13. 15.7 + 16.81 = | | |
| 14. 4570 * 6000 = | | |
| 15. 9600 / 160 | | |
| 16. 97.67 - 101.3 = | | |

Significant Figures (Advanced)

Perform the operation and then record the answer and the number of significant digits in the answer.

Example: $15000 * 870 = 13,050,000$ which should only have 2 significant figures so the correct value is 13,000,000
or $67.58 + 34.2 = 101.78$ which should only have the precision of the tenths spot so the answer is 101.8.

17. $87.45 * 42.5 + 45.1 =$

18. $3.35*(62.76 - 5.65) =$

19. $7(2530 * 400.0) =$

20. $93.0(67.73 + 1.1) =$

21. $2.50^2 + 120 =$

22. $(67.74 - 6000)(53+19.7) =$

23. $(5420 / 120)^2 =$

24. $51 * (82.38 - 64.2)^2 =$
