

Give the number of significant digits in each of the following measurements:

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|--------------|------------|
| 1. 1,278.50 | 7. 8.002 |
| 2. 120,000 | 8. 823.012 |
| 3. 90,027.00 | |
| 4. 0.0053567 | |
| 5. 670 | |
| 6. 0.00730 | |

Round off the following numbers to three significant digits:

- | | |
|-----------------|---------------|
| 9. 120,000 = | 12) 4.53619 = |
| 10. 5.457 = | 13) 43.659 = |
| 11. 0.0008769 = | 14) 876,493 = |

Perform the following operations giving the proper number of significant figures in the answer.

- 15) 23.4×14
- 16) $0.005 - 0.0007$
- 17) $0.2 / 0.0005$
- 18) $(7.6 \times 10^4) \times (5.823 \times 10^{-3}) =$
- 19) $(4 \times 972) + (76.4 \times 29.3) - (12 \times 7) =$
- 20) $\frac{4.1 \times 10^{-3} - 6.9 \times 10^{-2}}{7.2 \times 10^{-6} + 8.943 \times 10^4} =$