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## Significant Digits - Scientific Notation Quiz: Solutions

- A. Use scientific notation to express the number 650 to
1. one significant digit  $6 \times 10^2$
  2. two significant digits  $6.5 \times 10^2$
  3. three significant digits  $6.50 \times 10^2$
  4. four significant digits  $6.500 \times 10^2$
- B. Use scientific notation and round each number to 3 significant digits.
1. 635.50  $6.36 \times 10^2$
  2. 0.0029451  $2.95 \times 10^{-3}$
  3. 8.50001  $8.50 \times 10^0$
  4. 0.4035  $4.04 \times 10^{-1}$
  5. 99.2500  $9.92 \times 10^1$
- C.  $(385.3 \times 10^3) + (426.03 \times 10^2) + (1004 \times 10^0) = 4.289 \times 10^5$
- D.  $(29.504 \times 10^6) + (4.25 \times 10^7) - (2.0001 \times 10^8) = -1.280 \times 10^8$
- E.  $(0.679 \times 10^{-3}) + (2.042 \times 10^{-4}) + (39.42 \times 10^{-2}) = 3.951 \times 10^{-1}$
- F.  $(1.68 \times 10^{-7}) + (244.5 \times 10^{-9}) - (0.0025 \times 10^{-6}) = 4.10 \times 10^{-7}$