

## *Measurements and Calculations*

**MULTIPLE CHOICE:** On the line at the left of each statement, write the letter of the choice that best completes the statement or answers the question.

- 1) The four major stages of the scientific method are .
  - a) observing, formulating hypotheses, testing hypotheses, and theorizing
  - b) observing, generalizing, theorizing, and formulating hypotheses
  - c) observing, generalizing, theorizing, and testing hypotheses
  - d) collecting data, predicting, testing hypotheses, and theorizing
- 2) By making several measurements with the same balance, a chemist obtained values of 5.224 g, 5.235 g, and 5.259 g for the mass of a sample. Without knowing the actual mass of the sample, we can tell that these measurements have .
  - a) good precision
  - b) good accuracy
  - c) poor precision
  - d) poor accuracy
- 3) Which equation is an inverse proportion?
  - a)  $V = (1/k)T$
  - b)  $F = -kX^2$
  - c)  $PV = k$
  - d)  $Y = kX - 8$
- 4) The distance between the sun and Earth is 150 million km. Light travels at a speed of  $3.0 \times 10^8$  m/s. Dividing the distance by the speed and multiplying by the number of meters in a kilometer will result in units of .
  - a) seconds
  - b) meters per second
  - c) kilometers squared
  - d) kilometers per second
- 5) The measurement that has only non-significant zeros is.
  - a) 506 mL
  - b) 60.0 mL
  - c) 0.0037 mL
  - d) 400. mL
- 6) If some measurements agree closely but differ widely from the actual value, these measurements are .
  - a) both accurate and precise
  - b) neither precise nor accurate
  - c) precise but not accurate
  - d) accurate but not precise
- 7) If two quantities are directly proportional, when one quantity increases by 10 percent, the other .
  - a) increases by 10 percent
  - b) decreases by 10 percent
  - c) stays the same
  - d) may increase at a different rate
- 8) In division and multiplication, the answer must not have more significant figures than the .
  - a) number in the calculation with the fewest significant figures
  - b) number in the calculation with the most significant figures
  - c) average number of significant figures in the problem
  - d) total number of significant figures in the problem

# Modern Chemistry Chapter 4 Section 2 Quiz

**J Rink**



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## Embracing the Melody of Phrase: An Emotional Symphony within **Modern Chemistry Chapter 4 Section 2 Quiz**

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