

Chemistry First Semester Review

Key

Introduction to Chemistry

Terms to Define

- qualitative data
- quantitative data
- independent variable
- dependent variable
- control
- constants
- scientific theory
- scientific law
- standard of measurement
- base unit
- derived unit
- accuracy
- precision

Identify the following examples of data as qualitative (QL) or quantitative (QT).

- QL 1. the solution is blue
 QL 2. the metal has luster
 QN 3. the mass is 105 g
 QN 4. the temperature is 12 °C
 QN 5. the length is 5.0 mm
 QL 6. the liquid conducts electricity

Identify the SI base unit used for each of the following:

| | |
|-----------------------|-----|
| time | s |
| length | m |
| mass | kg |
| temperature | K |
| amount of a substance | mol |

Metric Conversions

| convert | to | |
|-----------|----|----------------------|
| 0.0032 mg | g | 3.2×10^{-6} |
| 2390 km | m | 2.39×10^6 |
| 0.009 g | ng | 9×10^6 |
| 0.033 Mg | cg | 3.3×10^6 |
| 0.00032 s | ms | 0.32 |
| 3.42 µg | pg | 3.42×10^6 |

Temperature Conversions

Convert the following:

- 1) $362\text{ °C} = 635\text{ K}$
 2) $25\text{ °C} = 298\text{ K}$
 3) $300\text{ K} = 27\text{ °C}$
 4) $0\text{ K} = -273\text{ °C}$
 5) $25\text{ K} = -248\text{ °C}$

Experimental Design

You design an experiment to determine which household cleaner best prevents the growth of bacteria. You gather five different household cleaners and some petri dishes with bacteria samples. Determine each of the following for your experiment:

independent variable: type of cleaner
 dependent variable: how well cleaners control bacteria
 control: petri dish w/ bacteria, no cleaner
 constants: temp, strain of bacteria, sunlight, etc

Scientific Notation

Convert the following to scientific or standard notation:

- 1) $8,320,000 = 8.32 \times 10^6$
 2) $0.000937 = 9.37 \times 10^{-4}$
 3) $7,500,000,000 = 7.5 \times 10^9$
 4) $5.22 \times 10^4 = 52,200$
 5) $9.214 \times 10^6 = 9,214,000$
 6) $8.5 \times 10^{-8} = 0.00000085$

Scientific Notation

Perform the following calculations:

- 1) $(2.1 \times 10^5) \times (8.33 \times 10^4) = 1.7 \times 10^{10}$
 2) $(7.50 \times 10^{30}) / (4.212 \times 10^{30}) = 1.78 \times 10^{-3}$
 3) $(4.4 \times 10^6) + (7.2 \times 10^6) = 5.1 \times 10^6$
 4) $(5.29 \times 10^9) - (6.04 \times 10^9) = -5.51 \times 10^9$

Mcps Chemistry Semester Review Guide Answers

Michael Hoelscher



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