Midterm Exam Study Guide 2018-19: Physical Science

Scientific Notation

1. **Convert numbers from decimal notation to scientific notation. (Appendix B, pg. 863 and pg. 866)**
   An exponent is a number that is a superscript to the right of another number. The best way to explain how an exponent works is with an example. In the value 5^4, 4 is the exponent on 5. The number with its exponent means that 5 is multiplied by itself 4 times. $5^4 = 5 \times 5 \times 5 \times 5 = 625$

   Figure 2 Rules for Dealing with Exponents

	Rule	Example
Zero power	$x^0 = 1$	$7^0 = 1$
First power	$x^1 = x$	$5^1 = 5$
Multiplication	$(x^m)(x^n) = x^{m+n}$	$(x^3)(x^5) = x^{3+5} = x^8$
Division	$\frac{x^m}{x^n} = x^{m-n}$	$\frac{x^8}{x^3} = x^{8-3} = x^5$

   Powers of the number 10 are used to keep track of the zeros in large and small numbers. Numbers that are expressed as some power of 10 multiplied by another number with only one digit to the left of the decimal point are said to be written in scientific notation. The number of zeros corresponds to the exponent to the right of the 10. The number for 10^4 is 10,000; it has 4 zeros.
   To simplify numbers that are less than 1, use negative exponents. Next, study the negative powers of 10. To determine the exponent that you need to use, count the number of decimal places that you must move the decimal point to the right so that only one digit is to the left of the decimal point. To simplify the mass of the ink in the dot on an i, 0.000000001 kg, you must move the decimal point 9 decimal places to the right for the numeral 1 to be on the left side of the decimal point. In scientific notation, the mass of the ink is $1 \times 10{-}9$ kg.
   [For more examples and information, review the Scientific Notation worksheet attached to this study guide. Also review the Writing Scientific Notation worksheet you did as classwork.]

2. **Convert numbers from scientific notation into decimal notation. (Appendix B, pg. 863 and pg. 866)**
   Same information as #1 but you are doing the reverse conversion.

3. **Add and subtract two (or more) numbers expressed in scientific notation. (Understand and apply the rules for addition and subtraction with exponents.) (Appendix B, pg. 863 and pg. 866)**
   When you use scientific notation in calculations, follow the rules for using exponents in calculations. When you add two numbers expressed in scientific notation, convert the numbers so they have the same exponent value (the larger number is easier to work with), as shown below.
   $(4 \times 10^5) + (2 \times 10^3) = (4 \times 10^5) + (0.02 \times 10^5) = 4.02 \times 10^5$. Use the same process when subtracting numbers written in scientific notation.
   [For more examples and information, review the Using Scientific Notation worksheet you did as classwork.]

4. **Multiple and divide two (or more) numbers expressed in scientific notation. (Understand and apply the rules of multiplication and division with exponents.) (Appendix B, pg. 863 and pg. 866)**
   When you use scientific notation in calculations, follow the rules for using exponents in calculations. When you multiply two numbers expressed in scientific notation, add the exponents, as shown below. $(4 \times 10^5) \times (2 \times 10^3) = [(4 \times 2) \times 10^{(5+3)}] = 8 \times 10^8$ When you divide two numbers expressed in scientific notation, subtract the exponents.
   [For more examples and information, review the Using Scientific Notation worksheet you did as classwork.]

Significant Figures

5. **Define, explain and apply the six rules for determining the number of significant figures for a number. (Appendix B, pg. 868)**
   You can use a few rules to determining the number of significant figures in a measurement.
   1. *All nonzero digits are significant.* Example 1,246 (four significant figures, shown underlined).
   2. *Any zeros between significant digits are also significant.* Example 1,206 (four significant figures).

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