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**Open**

Name : \_\_\_\_\_ Score : \_\_\_\_\_  
 Teacher : \_\_\_\_\_ Date : \_\_\_\_\_

**Operations with Scientific Notation**

*Simply, Write each answer in scientific notation. Round to the nearest thousandth if needed.*

- 1)  $(4 \times 10^2)(3 \times 10^3)$       7)  $(2 \times 10^2)(3 \times 10^3)$
- 2)  $(7 \times 10^2)(4 \times 10^2)$       8)  $\frac{5 \times 10^4}{2 \times 10^2}$
- 3)  $\frac{8 \times 10^2}{3 \times 10^2}$       9)  $(7 \times 10^2)^2$
- 4)  $(8.77 \times 10^2)(4 \times 10^3)$       10)  $(3 \times 10^2)^2$
- 5)  $\frac{22 \times 10^2}{98 \times 10^2}$       11)  $\frac{2 \times 10^2}{15 \times 10^2}$
- 6)  $(5 \times 10^2)^2$       12)  $(3 \times 10^2)^2$

Name: \_\_\_\_\_ Date: \_\_\_\_\_

**Atoms, Ions & Isotopes**

For each substance listed below, you have been given enough information to fill in all the blanks. Then decide if the atom is an isotope, a positive ion, a negative ion or a neutral atom.

Substance	Symbol	Atomic Number	Mass Number	Number of Protons	Number of Neutrons	Number of Electrons	Isotope, Ion or Not
Aluminum	Al		27	13		13	
Bromine		35	80		45	36	
Uranium	U	92			146	92	
Helium	He	2	4				
Helium	He	2	5			2	
Lithium		3	7			2	
Tungsten	W		184			113	
Xenon					79	54	Neutral Atom
Magnesium	Mg		24	12			Positive Ion
Carbon		6				4	Neutral Atom
Carbon	C		14	6	8		
Nitrogen		7	14				

$\frac{3 \times 10^{-2}}{4 \times 10^5}$	Original Problem
$\frac{3 \times 10^{-2}}{4 \times 10^5}$ $\downarrow$ <b>.75</b>	Step 1: Divide the coefficients. (3/4 = .75)
$\frac{3 \times 10^{-2}}{4 \times 10^5} =$ $\downarrow$ <b>.75 x 10<sup>-7</sup></b>	Step 2: Subtract the exponents of like bases. (-2 - 5 = -7)
$.75 \times 10^{-7}$ $\downarrow$ <b>7.5 x 10<sup>-8</sup></b>	Step 3: .75 is not written in correct scientific notation. It must read 7.5, so we need to move the decimal to the right one space. Therefore, you have to change the exponent to -8, because you'll have to move one more space to the left!
$\frac{3 \times 10^{-2}}{4 \times 10^5} =$ <b>7.5 x 10<sup>-8</sup></b>	Final Answer.

Answer the following questions completely. Show all work, and ALWAYS INCLUDE UNITS!

Some Useful Conversion Factors:		
1 gallon = 3.785 L (liters)	16 ounces = 1 pound	1 mile = 1.6 km
1 inch = 2.54 cm	3 gallons = 4 quarts	2.2 pounds = 1 kg

2. The distance from earth to the sun is about 94 million miles. How far is this in km? Write your answer in scientific notation.

$$94 \times 10^6 \text{ miles} \left( \frac{1.6 \text{ km}}{1 \text{ mile}} \right) = 1.5 \times 10^8 \text{ km}$$

3. The average human lives 74 years. How many days is that? How many seconds? Write your answer in scientific notation.

$$74 \text{ years} \left( \frac{365 \text{ days}}{1 \text{ year}} \right) = 27,010 \text{ days}$$

$$27,010 \text{ days} \left( \frac{24 \text{ hours}}{1 \text{ day}} \right) \left( \frac{60 \text{ minutes}}{1 \text{ hour}} \right) \left( \frac{60 \text{ seconds}}{1 \text{ minute}} \right) = 2.33 \times 10^9 \text{ seconds}$$

4. A hummingbird can beat its wings up to 90 times per second. How many times will it flap its wings in an hour?

$$\left( \frac{90 \text{ times}}{\text{second}} \right) \left( \frac{60 \text{ seconds}}{1 \text{ minute}} \right) \left( \frac{60 \text{ minutes}}{1 \text{ hour}} \right) = 324,000 \text{ times}$$

5. The average peanut weighs about 1g. How many peanuts will an elephant eat in a week if it eats 1kg of peanuts a day?

$$\left( \frac{1 \text{ kg}}{\text{day}} \right) \left( \frac{7 \text{ days}}{1 \text{ week}} \right) \left( \frac{1,000 \text{ g}}{1 \text{ kg}} \right) \left( \frac{1 \text{ peanut}}{1 \text{ g}} \right) = 7,000 \text{ peanuts}$$

Problem Solving with Scientific Notation

KEY

# 4

Directions: Solve each problem.

- 1) A rectangular section of a gated back yard for Mrs. Gabel's new puppy has dimensions of  $2 \times 10^3$  meters by  $6 \times 10^4$  meters. Find the area of the land in square meters written in scientific notation.

$A = L \cdot W$   $(2 \times 10^3)(6 \times 10^4)$

①  $2 \times 6 = 12$       ③  $12 \times 10^{7(+1)}$   
 ②  $3 + 4 = 7$       ④  $1.2 \times 10^8$

- 2) One cubic millimeter of Dracula's blood contains about 7,000,000 red blood cells. There are about 3,800,000 cubic millimeters of blood in his entire body. How many blood cells does Dracula have in total written in scientific notation?

$7 \times 10^6$        $3.8 \times 10^6$

$(7 \times 10^6)(3.8 \times 10^6)$

①  $7 \times 3.8 = 26.6$       ③  $26.6 \times 10^{12(+1)}$   
 ②  $6 + 6 = 12$       ④  $2.66 \times 10^{13}$

- 3) New York has approximately  $5 \times 10^6$  people living in it. The population of the entire United States is approximately  $2.5 \times 10^8$  people. About how many times greater is the population of the United States than the population of New York?

US  $2.5 \times 10^8$       ①  $\frac{2.5}{5} = .5$   
 NY  $5 \times 10^6$       ②  $8 - 6 = 2$   
 ③  $.5 \times 10^{2(+1)}$       ④  $5 \times 10^3$

- 4) A box contains  $4 \times 10^3$  Styrofoam peanuts. The mass of each peanut in the box is  $5 \times 10^{-4}$  kilogram. What is the combined mass of the Styrofoam peanuts in the box written in scientific notation?

$(4 \times 10^3)(5 \times 10^{-4})$

①  $4 \times 5 = 20$       ③  $20 \times 10^{-1(+1)}$   
 ②  $3 + (-4) = -1$       ④  $2.0 \times 10$

- 5) Santa Claus's belly is approximately  $2 \times 10^3$  millimeters in diameter. Earth is approximately  $3 \times 10^{12}$  millimeters in diameter (not really). How much larger is the Earth's diameter than Santa's Belly?

Earth  $3 \times 10^{12}$       ①  $\frac{3}{2} = 1.5$   
 Santa's belly  $2 \times 10^3$       ②  $12 - 3 = 9$   
 ③  $1.5 \times 10^9$

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Through the steps described above, we can use the 3 note to express 4,000 as  $4.0 \times 10^3$ . Similarly, 103 means  $10 \times 10 \times 10$ , which is equivalent to 1,000. (By the way, when solving math problems on a computer or calculator, the caret symbol ^ is sometimes used to denote exponents. A very large number is written in scientific notation by moving the decimal point to the left until ^ is left by a digit to the left. If you would like to express this sum in scientific notation, write  $2.0 \times 10^3$ . As we did that conversion ^ n. You can multiply the first numbers of each expression and add the exponents of 10 for multiplication problems. But a careful recount reveals that there are three other digits (all zeros) behind the first digit in "2,000". That gives us our exponential value. Here's how we ended up with the same amount we started with:  $2,000$ . That forces us to multiply our  $1.0$  by  $10^{-6}$ . Equally,  $27,000$  becomes  $2.7 \times 10^4$  and  $525,000,000$  becomes  $5.25 \times 10^8$ . Ah but ^ dare we convert 120 sextillions, that giant and unmanageable number of our opening sentence? Try this with a number you know, to make the most of it. Doing so in this example leaves us with "2.0". Obviously, 2.0 is much smaller than the 2,000 we started with. At this point, his answer is:  $11.5 \times 10^{-7}$ . You want to express your answer in scientific notation, which has only one digit to the left of the decimal point, so the answer must be rewritten as:  $1.15 \times 10^{-6}$ . In the division ^ n, the exponents of 10 are subtracted. Long strings of zeros and commas are not exactly great reading material. Hallelujah. A Sextillion by Another Name All right, it's time to have fun. That's what's called an exponent. Let's wait.) Ergo, in  $120,000,000,000,000,000,000$  is expressed as  $1.2 \times 10^{23}$ . But to admit it, this last is much easier in the eyes. Astronomers estimate that there are at least 120 star stars sextillion the observable universe. Consider the number 2,000. Write the numbers to be added or subtracted in scientific notation. Take a good, hard look at  $120,000,000,000,000,000,000$ . Altogether, there are 23 digits behind the "1." (Go ahead and count 'em up. But instead of writing "10 x 10" out, we could save ourselves some ink and write 102 instead. What's that itty-bitty "2" next to the number 10? The number of moves to the right gives you a negative exponent;  $0.0000005234 = 5.234 \times 10^{-7}$ . Addition and subtraction problems are handled the same way. Besides, the exponent gives you an immediate sense of how ginormous the total number really is. If your calculator has parentheses, it's a good idea to use them to make certain the calculation is carried out correctly. To enter in the numbers, look for a ^ button, which means "raised to the power of" or else  $y^x$  or  $xy$ , which means y raised to the power x or x raised to the y, respectively. The plain fact is, one sextillion eAAA or  $1,000,000,000,000,000,000,000$  eAAA isn't a sum most of us think about or interact with every day. Such is the simplifying beauty of scientific notation. Going Negative You'll be happy to know this process can be applied to numbers that are smaller than one. Suppose you've only got one-tenth of an apple. Another common button is 1/x, which makes scientific notation easy. Scientists and engineers often work with very large or very small numbers, which are more easily expressed in exponential form or scientific notation. Scientists commonly perform calculations using the speed of light ( $3.0 \times 10^8$  m/s). When you use scientific notation, what you're really doing is taking a small number (i.e., 2.0) and multiplying it by a specific exponent of 10 (i.e., 103). To get the former, put a decimal point behind the first non-zero digit in the original number. Well fortunately, there is. The way these button function depends on the brand of calculator, so you'll need to read the instructions or try the function ^ n. And when we commit 120 sextillions to paper numerically, it looks like this:  $120,000,000,000,000,000,000$ . But Houston, we have a problem. For example:  $3,454,000 = 3,454 \times 10^6$ . For very small numbers, move the decimal point to the right until ^ is left by a digit to the left of the decimal point. And it does it in a way that counting zeros can never. Also remember that not all calculators follow the order of operations, where the multiplication ^ and division ^ are performed before adding and subtracting. A sextilA ^ not written as  $10^6$  followed by 21 zeros. Do that and end with a simple  $10^6$ . In the name of mathematical clarity, let's write this as  $10^6$ . OK, so to get  $0.000,001$ , we're going to have to multiply our  $1.0$  by another exponent of 10. In fact, we do. But here's the twist: The exponent will be a negative number. Take another look at  $0.000,001$ . Happy calculation. Add or subtract the first part of the numbers, leaving the exponent part unchanged. And the full size number (i.e., 10) on your immediate left is known as the base. Just think of its implications: There are more stars in the universe than grains of sand on all the beaches and deserts of the Earth or cells in the human body. We're glad you asked. "Do you see how ^ there are six years behind the decimal point? Consequently,  $0.00,086$  will be written as  $8.6 \times 10^{-4}$ . Therefore,  $10^2$  can also be written as  $10^2$ , but we will save that conversation ^ for another day.) The scientific ^ is based on exponents. An example of a very small number is the load of an ^ n ( $1.602 \times 10^{-19}$  Coulombs). The exponent tells you how many times you need to multiply the base by itself. So  $10^2$  is ^ the other way to write  $10 \times 10$ . In short,  $1.0 \times 10^{-6}$  is how we express a million, or  $0.000,001$ , in scientific notation; similarly,  $6.0 \times 10^{-6}$  means  $0.006$ . Make sure your final answer is in scientific notation. The exponent tells you how many times you need to multiply the base by itself. So  $10^2$  is ^ the other way to write  $10 \times 10$ . In short,  $1.0 \times 10^{-6}$  is how we express a million, or  $0.000,001$ , in scientific notation; similarly,  $6.0 \times 10^{-6}$  means  $0.006$ . Make sure your final answer is in scientific notation. The exponent tells you how many times you need to multiply the base by itself. So  $10^2$  is ^ the other way to write  $10 \times 10$ . 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