Mathematics Review for Chemistry

Name

Grade	

1. Solve the following:	Which one produces the largest value?			Why?
25 x 3 x 8	$25 \times 3 \div 6 \times 8 \div 9 =$	25 x 8	3	
		X		=
6 x 9		6	9	

- 2. Three friends order one pizza cut into eight slices (Yum). They decide to have equal portions. (Hmm) How many slices does each friend get to eat?
- 3. In a galaxy far, far away there is no knowledge of fractions. Express 1/200 in decimal form (don't use a calculator for this problem, please).
- 4. Multiplying the numerator and denominator of a fraction by the same thing (a number, a variable, or an algebraic expression) has what effect on the fraction?
- 5. Show mathematically with an example how dividing can yield the same answer as multiplying by the reciprocal.
- 6. $5 \times 8 \times 3 = 5 \times 3 \times 8 = 5 \div 8 \div 3 = 5 \div 3 \div 8 =$

What information can we gain from this exercise?

- 7. Getting back to the pizza from question 2: it is decided to give one of the friends 1/12 of the pizza that was originally ordered and 1/3 of a second pie (instead of the original way of dividing the first pie). How much of the pizza with this friend get?
- 8. Solve for x: y = (9/5) x + 32 x =
- 9. Density = mass / volume volume =
- 10. A line has a slope of 0.362 and a y intercept of 5.1, What is the x intercept? Equation for the line: y = 0.362 x + 5.1
- 11. You have 40 m&m candies. You find that 15% of the candy is red. How many are red?
- 12. $[18/4]^{1/2} =$

13. Given: T/C = 4 If T = 44, what is the value of C? If C is tripled, what happens to the value of T? (Think of T as the number of tires and C as the number of cars.)