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

**Unit 1 Quiz Review**

***Do the following one-step and multi-step unit conversions. Round to 3 decimal places.***

1. Convert 150 ounces to milliliters.

There are 5280 feet in one mile

There are 0.034 ounces in one milliliter

There are 0.454 kg in one pound

There are 1.6 kilometers in one mile

There are 73 gallons in 2 barrels

There are 1.05 quarts in one liter

There are 4 quarts in one gallon

2. Convert 9500 feet to miles.

3. Convert 24 barrels to quarts.

4. How long does a car traveling at 75 mph take to travel 100 miles, in hours?

5. A bird chirps 10 times a minute. At this rate, about how many times would it chirp in a day?

6. How many terms are in the expression 5*x*2 – 5*x* +6?

7. What are the factors, coefficients, and constants in the expression 5*xy*2 – 5*x* + 6?

***Solve problems #8 – 12 by using the five-step plan. Show the equation and all of your work.***

8. Sabrina wants to have an average of at least 90 on her quizzes. If she took three quizzes and earned a 95, 86 and 82, what is the lowest grade she has to earn on the fourth quiz?

9. Write an expression for the statement *the cube of number increased by 12*.

***Remember: show the equation and all of your work.***

10. Sue agrees to buy a 4-month package deal of monthly gym passes, and in turn receives a

15% discount. Write an algebraic expression to represent the total cost of the monthly passes with the discount, if *x* represents the cost of each monthly pass.

11. Destiny is trying to find the sum of 3 consecutive even integers. Their sum is 66. Find the 3 numbers.

12. The width of a rectangle is 5 inches more than the length. The perimeter is 126. Find the length and width of the rectangle.

***Solve the following. Show all of your work.***

13. 

14. 

15. 