

Name _____ Lab Section Number: _____

Mathematics Skills Quiz

Place all answers in the spaces provided below, using the back only if needed.

- _____ 1. A gallon of milk weighs 8 pounds. How many gallons are there in a milk can which contains 140 pounds of milk?
- _____ 2. $\frac{75}{X} = \frac{1.49}{4}$ What is X?
- _____ 3. $\frac{1}{10} \times 25 = \frac{k}{8}$ What is k?
- _____ 4. When roller skating, there must be two girls and one boy in each trio. If there are 20 boys and 32 girls, how many trios can they make?
- _____ 5. The cargo from three trucks fits into two train cars, with each loaded train car weighing 10.5 tons. What is the total weight of loaded train cars if 18 trucks were unloaded?
- _____ 6. $\frac{X}{3} = Y$ and $2(10.5)Y = Z$ If $X = 21$, what is Z?
- _____ 7. Three oranges and two apples are required for each fruit basket. How many complete fruit baskets can be made if we have nine dozen oranges and eight dozen apples?
- _____ 8. Dunkin' Donuts sells 200 dozen doughnuts every day. How many individual doughnuts do they sell each hour?
- _____ 9. Initially, there is $\frac{1}{2}$ cup sugar in 1 quart of applesauce, but then 2 quarts of unsweetened applesauce are added. What is the final concentration of sugar per quart of applesauce?
- _____ 10. $\frac{6}{4Y} = \frac{X}{Y}$ If $Y = 4$, what is X?