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

Factor Label Worksheet- Must show work and use “train track method” to answer each question

1. The highway department wants to plant trees along the highway from Colorado Springs to Denver. They plan to plant 18 trees per mile along this 97 mile strip of highway. How many trees are needed?

2. There are .621 miles in one km. How many km is it to “Wendy’s” if the distance

is 2.3 miles?

3. A good milk cow can produce 19 gallons of milk per day. If a typical family consumes 0.80 gallons of milk a day, how many cows are needed to provide for 5500 families?

4. How many feet are in 1742 meters?

5. How many kilograms of golf balls are in 4155 balls that weigh 28.4 grams each?

6. How many cm3 are in 10 dm3?

7. How many liters of water are needed to fill a swimming pool that is 27. dm x 200.

dm x 45. dm?

8. You have just been promoted to manager of your neighborhood McDonalds, and

you have 453 kg of frozen burger in stock. If one burger uses 113.5 grams of

“meat” how many burgers can you make?

9. How many kilograms of Helium are needed to fill a balloon that is 2500. milliliters in

volume? (Density of He is 0.166 g/ml)

10. Ms. Giehll has said that anyone over 190,000 hours old does not have to take the

next test. Calculate what this age is in years and if you need to take the next test.

11. It has been determined that an average high school student uses 13,000 yards of

pencil lead during their time in school. What is this distance in km? (1 yard = 3

feet and 1 in = 2.54 cm)

12. How many minutes are in 3.65 days?

13. How many eight hour days will a person who works for $8.75 per hour have to

work to make $21,500?

14. How many meters are in 3.46 miles? (2.54 cm = 1 inch)

15. If you have 1.60 kilograms of a shiny material that occupies 4.00 liters of space is

this material gold? (Hint the density of gold is 19.3 g/ml)