Name: _____   Date: _____   Per: _____

THE
WALKING DEAD

Directions: Answer the following questions. For this assignment, write your answers to the nearest whole number. This will help you – because some of the problems rely on the answer from the previous question. Listed below are conversion factors. Pencil! Box! Most importantly, survive!

500 mL = 1 soda can

12 oz = 1 soda can

14.9 g = 1 soda can

1 oz = 0.125 cup

1 oz = 28.349 grams

1 lb = 453.6 grams

1 kg = 2.2 lb

1 gal = 3.785 L

1 kg = 1000 g

1 apple = 95 calories

Water Requirements (daily)	Desert	Rainforest	Temperate
Male	18 cups (4.5 L)	16 cups (3.69 L)	13 cups (3L)
Female	14 cups (3.42 L)	12 cups (2.93 L)	9 cups (2.2 L)

You are part of a team made up of **4 men and 3 women**. You are in a zombie infested wooded area and they are closing in on your camp quickly. Luckily the former truck-driver in your team has a salvaged CB radio and was able to communicate with Camp Nirvana just southwest of your current location. The bad thing is it will take about **7 days** to get there driving through **temperate terrain** with rest stops.

_____

1. Before you leave you need to make sure your team has enough water for everyone. Due to the zombie apocalypse everyone left quickly and only have empty soda cans and a large water container. You have to make sure to measure out enough water for the **7 day journey**. Use the space below to calculate **how many cans of water** you need to dump into the water storage container.

$$\frac{7\ days}{1} \left| \frac{79\ cups}{1\ day} \right| \qquad \left| \frac{cans}{} \right| \right| \underline{\qquad\qquad} =$$
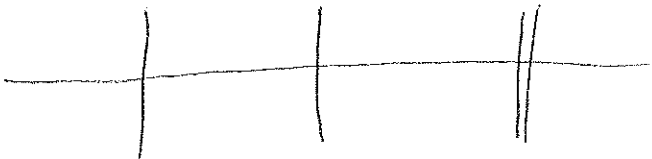
2. Food is another concern before the trip begins. Everyone has become accustomed to a **1,500 calorie** diet due to the current state of zombies. There is hardly any food left at your camp but luckily two men scouted an apple orchard about a mile away. A **189 g** apple has **95 calories.** Will 35 pounds of apple be enough for one day?

Hint: 1st Fraction — How many persons in group?

$$\frac{persons}{1} \quad | \quad | \quad | \quad \frac{lb}{} \quad ||$$

3. In order to drive to the new camp the team can only drive during the day to avoid the zombie's wake period. There are currently **11 safe hours** in which to drive. The water rig the team is driving will over heat at 40 miles an hour so they agreed to only drive **35 mph**. How many miles will the team be driving?

Hint:
How many days are you traveling

$$| \quad | \quad ||$$

4. A dictator junk gang has all the gas left in the region. Your water rig is American made with a gallon gas tank and it can **drive 30 miles per gallon.** How many liters of gasoline do you need from the junk gang in order to successfully make it the new destination?

Hint: First Fraction is answer from #3
Hint: 3 steps

5. Your team decided to give the junk gang aluminum cans to pay for the gasoline. They are requiring **2 kg of scrap metal** in exchange for gasoline which they are selling by the liter. How many empty cans need to be given to the gang to pay for the gasoline for the trip?

Hint: First fraction is answer from #4.
Hint: 4 steps