PART 1 – CONVERSIONS IN THE SAME SYSTEMS

Solve the following problems using the table below. Please show any work.

CAPACITY AND VOLUME	
METRIC	**U.S. CUSTOMARY**
1 liter = 1000 milliliters	1 gallon = 4 quarts
	1 quart = 2 pints
	1 pint = 2 cups

2 x 500 =

1. Lila went to the store to buy three 2-liters bottles of pop for a party. The store only sold the pop she wanted in 500 mL bottles. How many bottles does she need to buy?

2 liters

500 ml

She need 2 liters with is 2000 ml so you need to find how meny it take to get 2000 ml.

2. Micah bought 3 gallons of apple cider for the same party. How many cups of cider will he be able to serve?

3 gallons equel 4 quarts

1 quart = 2 Pints

1 Pints = 2 cups so you need to x $\frac{2 \text{ cups}}{4 \text{ quarts}}$ and 3 gallons

2 x 4 = 8

8 x 3 = 24

24 cup can be served.

PART 2 – CONVERSIONS BETWEEN SYSTEMS

Solve the following problems using the table below. Please show any work.

LENGTH	
METRIC TO CUSTOMARY	**U.S. CUSTOMARY TO METRIC**
1 centimeter 0.39 inch	1 inch = 2.54 centimeters
1 kilometer 0.62 mile	1 mile 1.61 kilometers

1. Eshaan is driving in Canada and the speed limit signs are in kilometers per hour. If the sign says 60 kilometers per hour, what is the approximate speed in miles per hour?

If he drives of 2 hour and 1 mile is 1.61 Kilometers Per mile You must x 1.61 x 120 to get 193.2

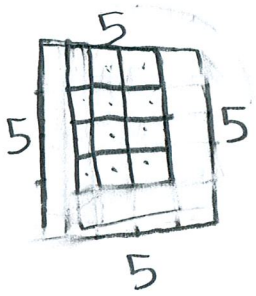
2hour would be 193.2 miles

2hour / 193.2 miles

2. Maya measured the side of a square postcard as 12 cm. Will it fit in a frame that is 5 in by 5 in? Why or why not?

5x5=25

12 cm



yes a 12 cm would fit in a 5by 5

PART 3 – MULTI-STEP PROBLEM

Solve the following problem. Please show any work.

US. CUSTOMARY	
TIME	**LENGTH**
1 minute = 60 seconds	1 mile = 5,280 feet

Hannah is trying out for the cross country team at her school. To make the team, she has to complete a mile in 8 minutes or less. Today she ran 9 feet per second. Based on today, would she make the team?

8 min = 480 sec

9 feet Per Second

4320 She ran 4320 mile in 8 minutes

no 1 mile is 5,280

___ Yes

_✓_ No

If No, how much faster (in feet per second) does she need to be in order to make the team?

She need to run 11 feet to get to 5280 in 8min

So She need to run 88 feet per sec to get to 5280 feet in 60 sec / 1 min.