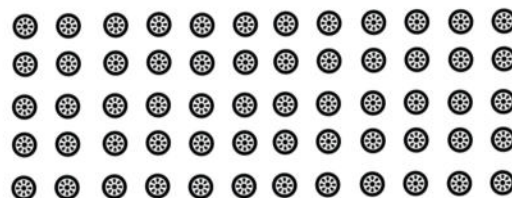


## Limiting Reactant Warm Up Activity

How many vehicles can be assembled if a factory has 24 car frames and 60 tires? How many items are leftover? What are they?



Time for Pancakes! Yum...



### Recipe for Pancakes:

**1 Cup Pancake Mix**  
**3/4 Cup Milk**  
**1 Tsp Oil**  
**1 Egg**

### In the Pantry and Fridge:

**2 lb Box of Pancake Mix**  
**1 Gallon Milk**  
**48 oz Bottle of Oil**  
**1 Dozen Eggs**



The recommended serving size for Aunt Jamima pancakes is 1/3 cup of mix, or approximately 47 grams. This makes about 4 pancakes. (454 grams = 1 pound)

How many pancakes can you make for breakfast?

Which ingredient runs out first?

How much of the other ingredients are left over?

**Answers to Vehicle Question:**

Since cars have 4 tires,  $60/4 = 15$ .

You can assemble **15 vehicles**, and you will have **9 frames** left over.

**Answers to Pancake Question:**

2 lbs of mix is 908 grams. Since one serving is 47 grams and that makes 4 pancakes, **the box will make about 76 pancakes.**

1 Gallon of milk contains 16 cups of milk. Since the recipe calls for  $\frac{3}{4}$  cups of milk and  $\frac{1}{3}$  cup of the mix is used to make 4 pancakes, **1 gallon of milk will make about 256 pancakes.**

48 oz of oil contains 96 tbsp of oil. Since the recipe calls for 1 tbsp of oil and  $\frac{1}{3}$  cup of the mix is used to make 4 pancakes, **48 oz of oil will make about 1153 pancakes.**

1 dozen equals 12 eggs. Since the recipe calls for 1 egg and  $\frac{1}{3}$  cup of the mix is used to make 4 pancakes, **12 eggs will make about 144 pancakes.**