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Millie and Mel's

Your Aunt Millie and Uncle Mel have just opened a sandwich shop.
Here is a picture of the sign they have hanging behind the counter.

Millie & Mel's Sandwiches		
<u>Bread</u>	<u>Garnish</u>	<u>Filling</u>
rye white French	lettuce tomato	salmon roast beef ham tuna
Fresh ingredients		All sandwiches made to order

1. How many different kinds of "tuna on rye" sandwiches can be made? What are they? (You may only order one filling and one kind of bread in each sandwich.)

2. How many different kinds of ham sandwiches can be made? What are they?

3. Aunt Millie and Uncle Mel want to print a menu listing all the different sandwiches they can make.

Aunt Millie claims they can make 24 different sandwiches. Uncle Mel claims they can make 36 different sandwiches. Their best customer claims they can make 48 different sandwiches.

Who do you agree with and why?

Extension:

A new sandwich shop has opened down the street from Millie and Mel's. Here you may choose from 5 kinds of bread, 8 fillings, and 3 garnishes. If you bought a different sandwich in this shop five days a week for your lunch, how many years would it take to order one of each possible sandwich?