



NAME: _____ SCORE: _____



Objective:

Solve problems involving permutation and combinations.



TASKS



Show all actual arrangements described in each situation.

SITUATION	YOUR ACTUAL ARRANGEMENTS
Suppose you order a drink, a viand, and a type of rice for your lunch in a canteen. The drinks are Mango Shake, Buko Juice, Sago't Gulaman, and Barako Coffee. Meanwhile, the viands available are Kare-Kare, Lechon Kawali, and Bicol Express. Lastly, the types of rice available are Garlic Rice and Tinapa Rice. How many possible menu combinations can you create? MG – mango juice; BK – buko juice; SG – sago't gulaman; BC – barako coffee KK – kare-kare; LK – lechon kawali; BE – bicol express. GR – garlic rice; TR – tinapa rice	
At a food festival, there are 3 stalls offering different local delicacies: ube halaya, bibingka, and leche flan. Each stall has 4 variations of toppings/sides. If you can choose one delicacy and one topping/side, how many unique combinations of delicacies and toppings/sides are possible?	
During a cultural event, there are 5 traditional Filipino dances being performed: Tinikling, Pandanggo sa Ilaw, Itik-Itik, Singkil, and Maglalatik. If you want to watch 3 of these dances in a row, how many different sequences of dances can you watch?	



Show the complete solution for each problem.

PROBLEM	SOLUTION
At a local bakery, there are 5 different types of bread available: pandesal, ensaymada, Spanish bread, loaf bread, and baguette. If you want to buy a mixed pack containing any 3 types of bread, how many different combinations of mixed packs can you purchase?	