

Problem Solving: Make an Organized List

Solve by making an organized list. The lists have been started for you. Complete the lists and answer the questions.

1. A balloon game at the county fair gives 1,000 points, 500 points, and 250 points for each balloon that you pop. If Stewart buys 2 darts and pops 2 balloons, how many possible points can he score?

1,000	500	250	Total
✓✓			2,000
✓	✓		1,500
✓		✓	1,250

2. How many different 3-letter arrangements can you make with the letters, L, G, and F?

L	G	F
LGF		
LFG		

3. In a chess tournament, Miguel, Rebecca, Kyle, Ana, and Josh will play each other once. How many games will they play?

M	R	K	A	J
MR				
MK				
MA				
MJ				

4. Tanya has to wear a cap and T-shirt for her job at the amusement park. She can wear a red, blue, or yellow cap and a red or green shirt. How many different cap and shirt pairs can Tanya wear?

A 5

B 6

C 9

D 10

5. **Writing to Explain** How could you find the number of different arrangements of 6 letters in a computer password?
