

MAKE AN ORGANIZED LIST OR A TABLE



Making a list or a table is a way to organize data presented in a problem. This problem-solving strategy allows students to discover relationships and patterns among data. This strategy helps students to bring a logical and systematic development to their mathematics.

Example 1:

How many ways can you arrange the letters A, B, C? Find all the ways.

List of all possible ways: ABC, ACB, BAC, BCA, CAB, CBA

Example 2:

Tina wants to have exactly 16 cents. She only has nickels and pennies. What are all the different ways to do that?

List all the different ways using a table:

Number of Nickels	Number of Pennies
1	11
2	6
3	1
0	16

Example 3:

Malia has 3 poster-size pictures that she wants to put on her door, but only 2 pictures will fit. She has a picture of her dog, a picture of her hamster, and of a super cool guitar. How many different ways can she arrange the posters?

First, assign key for each poster: D = dog, H = hamster, G = guitar

Then list all the possible different ways:

D and H D and G H and G
~~H and D~~ ~~G and D~~ ~~G and H~~

Since she doesn't care how to arrange the 2 pictures, having D and H is the same with H and D. Therefore, there are only 3 ways.