

Class Exercise:

Decide whether each of these is an arrangement with repetition, a permutation, or a combination. Then answer the question.

1. How many different ways can you rearrange the letters of the word ABSOLUTE?
(For example, TELSBAOU would be one rearrangement.)
2. How many possible 7-digit telephone numbers are possible if the first digit cannot be a 0 or a 1?
3. Suppose there is a good deal on 3-topping pizzas. If there are 20 different toppings to choose from, how many possible 3-topping pizzas are there? (Assume no repetition of toppings.)

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