



Practice with Combinations

Please choose the best answer to each of the following questions.

1. If I had 11 pieces of fruit to eat and I could eat any number of them or none of them, I could have 110 different meals.
True
False
2. How many 2 letter combinations of ABCD can I have with repetition?
5
20
10
15
3. How many 2 letter combinations of ABCDEFGHIJ can I have without repetition?
35
45
10
25

4. Determine whether the following is a combination and if order is important:

My aunt gave me a quarter. I can throw it in a pond, buy a gumball, or put it in the bank. What are my options?

This is not a combination problem.

This is a combination problem. Order is not important.

5. Out of 3 red balls and 4 blue balls, how many groups of 1 red and 2 blue balls can be formed?

20

100

78

18

6. Find combinations without repetition: ${}_5 C_2$

10

5

20

7. If the number of possible ways I can do a task is 5, and the number of likely ways I can do it is 2, what is the number of possible outcomes?

3

2

5