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Exercise: Use counting to calculate probabilities

(2/2 points)

You are given the set of letters {A, B, C, D, E}. What is the probability that in a random five-letter string (in which each letter appears exactly once, and with all such strings equally likely) the letters A and B are next to each other? The answer to a previous exercise may also be useful here. (In this and subsequent questions, your answer should be a number. Do not enter '!' or combinations in your answer.)

0.4

✔ **Answer:** 0.4

Answer:
From the previous exercise, the event of interest has 48 elements. The sample space has $5! = 120$ elements. Thus, the desired probability is $48/120 = 2/5 = 0.4$.

You have used 1 of 2 submissions