More probability name:

1. For each of these situations, describe how to simulate them using a deck of cards (be sure to specify replacement or non-replacement):

a. rolling an 8 sided die (numbers 1-8)

b. rolling two 8-sided dice

c. spinning the spinner once



d. picking two cubes from a bag with 8 blue and 2 yellow cubes.

2. Given the set up: 8 blue and 2 yellow cubes in a bag (show your work with a tree diagram or similar)

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| a. If you pick 3 cubes, what is the probability that no cubes are yellow?b. What is the complement of no cubes being yellow? (in words)c. What is the probability of the complement? |

3. Given the setup: roll a 6-sided die 3 times.

a. What is the probability that you don’t roll a 6 any time?

b. What is the probability that you roll a 6 at least once?