

EVALUATE

Must show all work for full credit!! Leave answers as simplified fractions.

1. A jar holds 3 black marbles and 2 white marbles. Two marbles are taken out with replacement. What is the probability that the first marble removed will be black and the second removed will be white?

2. A class contains 12 juniors and 13 seniors as described below:

	Juniors	Seniors
Male	7	4
Female	5	9

If three random students are chosen to represent the class in an assembly, what is the probability that all three chosen students will be female seniors?

3. How many 3-digit numbers are possible if the last digit (units) is a 3?
4. Two cards are drawn from a standard deck, without replacement. What is the probability that both cards drawn will be face cards?

5. Bag A contains 9 red marbles and 3 green marbles. Bag B contains 9 black marbles and 6 orange marbles. Find the probability of selecting one green marble from bag A and one black marble from bag B.
6. There are 24 students in a math class. Each day, the teacher randomly chooses 1 student to show a homework problem solution on the board. What is the probability that the same student will be chosen 4 days in a row?
7. A bag contains 8 red ribbons, 7 green ribbons, and 3 yellow ribbons. If you randomly remove 2 of the ribbons from the bag at the same time, what is the probability that the ribbons will both be yellow?
8. A box contains discs with letters on them, as shown in the diagram. You randomly remove four of the discs, one at a time, and set them in a row on a table. What is the probability that the discs you remove will be, in order, A B C D?

