

7. An envelope contains 5 cards, numbered 1 to 5. Darcy draws a card, does not replace it, and then draws a second card. What is the probability that she drew a "2" followed by a "3"?
- A. 0.05
B. 0.15
C. 0.20
D. 0.50
8. A drawer contains 6 pens. One of them is out of ink, but the other 5 work. What is the probability of picking two pens that work if the first pen picked is NOT replaced after it is picked?
- A. $\frac{5}{6}$
B. $\frac{4}{5}$
C. $\frac{2}{3}$
D. $\frac{5}{6}$

OPEN-ENDED QUESTION

9. There are 6 girls and 4 boys in the school chess club. Two students in the club are to be selected at random to participate in a statewide chess tournament. The club moderator writes each student's name on a card and places the cards in a bag. The moderator will then draw one name from the bag, and without replacing it, draw a second name.
- What is the probability that the moderator will draw the name of a girl first and the name of a boy second? Show your work.
 - What would be the probability if the moderator drew the name of a boy first and the name of a girl second? Would it be any different than drawing the name of a girl first and a boy second? Show your work or explain your answer.

