

Department of Mathematics and Computer Science
Probability and Statistics Challenge Problems 6

Please submit solutions by Thursday November 12, at 3pm

A bowl of grapes contains 15 green and 5 red grapes. Bob randomly selects and eats 3 grapes. Once Bob is finished, Cheryl randomly selects a grape from the bowl.

1. What is the probability that Cheryl selects a green grape?
2. If Cheryl selects a green grape, what is the probability that Bob consumed at least one green grape?

Solutions to any or all of the problems may be submitted to John Sheriff (D510). If no one is in the office, just put the solution under the door. Please include your name and student number. Students with correct solutions will be acknowledged and prizes will be awarded at the end of the year based upon performance during the year. Problems and solutions are available at <http://www.cs.uleth.ca/~sheriff/statistics/challenge.htm>.