Practice worksheet | Probability

Replacement and dependence

Name: _____ Date: _____

6 questions | 14 marks

1. A bag has 4 green and 3 yellow. After drawing a green without replacement, find the next green chance. [2 marks]

2. A bag has 4 green and 3 yellow counters. Two counters are drawn at random with replacement. Find P(two green). [2 marks]

3. A bag has 4 green and 3 yellow counters. Two counters are drawn at random without replacement. Find P(two yellow). [2 marks]

4. P(A)=0.3, P(B)=0.6 and P(A and B)=0.18. Test independence. [2 marks]

5. P(A)=0.5, P(B)=0.4 and P(A and B)=0.3. Find P(A|B) and test independence. [3 marks]

6. Two fair coin tosses are independent. Does a first head make a second tail “due”? Explain. [3 marks]