

# Homework 1 Solutions

*Statistics 134, Pitman, Fall 2012*

- 1.1.7**
- a)  $P(\text{maximum} \leq 2) = P(\text{both dice} \leq 2) = 4/36 = 1/9$
  - b)  $P(\text{maximum} \leq 3) = P(\text{both dice} \leq 3) = 9/36 = 1/4$
  - c)  $P(\text{maximum} = 3) = P(\text{maximum} \leq 3) - P(\text{maximum} \leq 2) = 5/36$
  - d) 

Outcome	1	2	3	4	5	6
Probability	1/36	3/36	5/36	7/36	9/36	11/36
  - e) Since this covers all the possible outcomes of the experiment, and these events are mutually exclusive, you should expect  $P(1) + P(2) + P(3) + P(4) + P(5) + P(6) = 1$ .
- 1.3.8**
- a)  $A \cup B =$  "male or undeclared".  
 $P(A \cup B) = P(A) + P(B) - P(AB) = 0.6 + 0.4 - 0.2 = 0.8$
  - b)  $A^c =$  "female"  
 $P(A^c) = 1 - P(A) = 0.4$
  - c)  $B^c =$  "declared major"  
 $P(B^c) = 0.6$
  - d)  $A^c B =$  "female and undeclared"  
 $P(A^c B) = P(B) - P(AB) = 0.4 - 0.2 = 0.2$
  - e)  $A \cup B^c =$  "male or declared".  
 $P(A \cup B^c) = P[(A^c B)^c] = 1 - 0.2 = 0.8$
  - f)  $A^c B^c =$  "female and declared"  
 $P(A^c B^c) = P[(A \cup B)^c] = 1 - 0.8 = 0.2$
- 1.3.10**
- a)  $P(\text{exactly 2 of } A, B, C) = P(ABC^c) + P(AB^cC) + P(A^cBC)$   
 $= (P(AB) - P(ABC)) + (P(AC) - P(ABC)) + (P(BC) - P(ABC))$   
 $= P(AB) + P(AC) + P(BC) - 3P(ABC)$
  - b)  $P(\text{exactly 1 of } A, B, C) = P(AB^cC^c) + P(A^cB^cC) + P(A^cB^cC)$   
 $= P(A) - P(A \cap (B \cup C)) + P(B) - P(B \cap (A \cup C)) + P(C) - P(C \cap (A \cup B))$   
 $= \dots$   
 $= P(A) + P(B) + P(C) - 2(P(AB) + P(AC) + P(BC)) + 3P(ABC)$
  - c)  $P(\text{exactly none}) = 1 - P(A \cup B \cup C)$   
 $= 1 - (P(A) + P(B) + P(C)) + (P(AB) + P(AC) + P(BC)) - P(ABC)$

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