

## Chapter 1

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# Axioms of Probability

### 1.2 SAMPLE SPACE AND EVENTS

1.  $\{M, I, S, P\}$  is a sample space for this experiment, and  $\{I\}$  is the event that the outcome is a vowel.
2. A sample space is  $S = \{0, 1, 2, \dots, 57\}$ . The desired event is  $E = \{3, 4, 5, 6, 7, 8\}$ .
3.  $E$  is the event of at least two heads.
4.  $E$  is the event that one die shows three times as many dots as the other.  $F$  is the event that the sum of the outcomes is exactly 6.
5. For  $1 \leq i, j \leq 3$ , by  $(i, j)$  we mean that Vanna's card number is  $i$ , and Paul's card number is  $j$ . Clearly,  $A = \{(1, 2), (1, 3), (2, 3)\}$  and  $B = \{(2, 1), (3, 1), (3, 2)\}$ .
  - (a) Since  $A \cap B = \emptyset$ , the events  $A$  and  $B$  are mutually exclusive.
  - (b) None of  $(1, 1)$ ,  $(2, 2)$ ,  $(3, 3)$  belongs to  $A \cup B$ . Hence  $A \cup B$  not being the sample space shows that  $A$  and  $B$  are not complements of one another.
6.  $S = \{RRR, RRB, RBR, RBB, BRR, BRB, BBR, BBB\}$ .
7.  $\{x: 0 < x < 20\}; \{1, 2, 3, \dots, 19\}$ .
8. Denote the dictionaries by  $d_1, d_2$ ; the third book by  $a$ . The answers are  $\{d_1 d_2 a, d_1 a d_2, d_2 d_1 a, d_2 a d_1, a d_1 d_2, a d_2 d_1\}$  and  $\{d_1 d_2 a, a d_1 d_2\}$ .
9.  $EF$ : One 1 and one even.  
 $E^c F$ : One 1 and one odd.  
 $E^c F^c$ : Both even or both belong to  $\{3, 5\}$ .
10.  $S = \{QQ, QN, QP, QD, DN, DP, NP, NN, PP\}$ . (a)  $\{QP\}$ ;  
(b)  $\{DN, DP, NN\}$ ; (c)  $\emptyset$ .
11.  $S = \{x: 7 \leq x \leq 9\frac{1}{2}\}$ ;  
 $\{x: 7 \leq x \leq 7\frac{1}{4}\} \cup \{x: 7\frac{1}{2} \leq x \leq 8\frac{1}{4}\} \cup \{x: 8\frac{1}{2} \leq x \leq 9\frac{1}{6}\}$ .

# Fundamentals Of Probability Models Solutions Manual

**Clemens Wendtner**



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