

Chapter 2: Basic Concepts of Probability Theory

2.1 Specifying Random Experiments

2.1

① $\mathcal{A} = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12\}$

② $A = \{1, 2, 3, 4\}$ $B = \{2, 3, 4, 5, 6, 7, 8\}$ $D = \{1, 3, 5, 7, 9, 11\}$

③ $A \cap B \cap D = \{3\}$ $A^c \cap B = \{5, 6, 7, 8\}$

$$A \cup (B \cap D^c) = \{1, 2, 3, 4, 6, 7\}$$

$$(A \cup B) \cap D^c = \{2, 4, 6, 8\}$$

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