# Chapter 1 Basic Probability Concepts

#### Section 1.2. Sample Space and Events

- 1.1 Let X denote the outcome of the first roll of the die end Y the outcome of the second roll. Then (x, y) denotes the event (X = x and Y = y).
  - s. Let U denote the event that the second number is twice the first; that is, y = 2s. Then U can be represented by

$$W = \{(1,2),(2,4),(3,6)\}$$

Since there are 36 equally likely sample points in the experiment, the probability of U is given by

$$F[Z] = 3/36 = 1/12$$

 Let V denote the event that the second number is greater than the first. Then V can be represented by

$$F = ((1, 2), (1, 3), (1, 4), (1, 5), (1, 0), (2, 3), (2, 4), (2, 5), (2, 0), (3, 4), (3.5), (3, 0), (4.5), (4.0), (5.0))$$

Thus, the probability of V is given by

$$F(F) = 15/36 = 5/12$$

and the probability of that the second number is not greater than the first is given by

$$g = 1 - P[F] = 7/12$$

 Let W denote the event that at least one number is greater than 3. If we use "ra" to denote that an entry is not applicable, then W can be represented by

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