

### **5.1: Randomness, Probability and Simulation**

#### **Probability**

The **probability** of any outcome of a chance process is a number between 0 and 1 that describes the proportion of times the outcome would occur in a very long series of repetitions.

#### **Simulation**

The imitation of chance behavior, based on a model that accurately reflects the situation, is called a **simulation**.

#### **Performing of a Simulation – The 4-Step Process**

1. **State:** Ask a question of interest about some chance process.
2. **Plan:** Describe how to use a chance device to imitate one repetition of the process. Tell what you will record at the end of each repetition.
3. **Do:** Perform many repetitions of the simulation.
4. **Conclude:** Use the results of your simulation to answer the question of interest.

### **5.2: Probability Rules**

#### **Sample Space**

The **sample space**  $S$  of a chance process is the set of all possible outcomes.

#### **Probability Models**

Descriptions of chance behavior contain two parts:

A **probability model** is a description of some chance process that consists of two parts:

- a sample space  $S$  and
- a probability for each outcome.

**For example:** When a fair 6-sided die is rolled, the Sample Space is  $S = \{1, 2, 3, 4, 5, 6\}$ .

The probability for a fair die would include the probabilities of these outcomes, which are all the same.

<b>Outcome</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>
<b>Probability</b>	1/6	1/6	1/6	1/6	1/6	1/6

#### **Event**

An **event** is any collection of outcomes from some chance process. That is, an event is a subset of the sample space. Events are usually designated by capital letters, like  $A$ ,  $B$ ,  $C$ , and so on.

**For example:** For the probability model above we might define event  $A$  = die roll is odd. The elements of the sample space  $S$  that fits this event are  $\{1, 3, 5\}$ . The probability of the event  $A$ , written as  $P(A)$  is the  $3/6$  or  $1/2$ . So we would write  $P(A) = 0.5$ , in decimal form.

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