

Probability Examples - Section 2.4, 2.5

1. A manufacturer has five seemingly identical computer terminals available for shipping. Unknown to her, two of the five are defective. A particular order calls for two of the terminals and is filled by randomly selecting two of the five that are available.
 - (a) List the sample space for this experiment.
 - (b) Let A denote the event that the order is filled with two non-defective terminals. List the sample points in A .
 - (c) Assign probabilities to the sample points for this experiment.
 - (d) Find the probability of event A .

2. The casino game craps involves rolling two dice and adding the outcomes.
 - (a) List the sample space for rolling two dice.
 - (b) Assign a probability for each sample point in the sample space.
 - (c) Let the event A be obtaining a sum of 7 when rolling two dice. What is the probability of event A ?
 - (d) Let the event B be obtaining a sum of 4 or less when rolling two dice. What is the probability of event B ?
 - (e) In the game of craps, you roll a craps when your two dice sum to 2. What is the probability of rolling a craps?