Probability

Math 122 – Introduction to Statisics and Probability

what is the probability that none are defective? In a batch of 100 stereos 5 are defective. If five of the stereos are selected with replacement,

In a batch of 100 stereos 5 are defective. If five of the stereos are selected with replacement, what is the probability that at least one is defective?

A bowl contains 7 red marbles and 3 blue marbles. Two marbles are selected without replacement. What is the probability that **both** are blue?

A bowl contains 7 red marbles and 3 blue marbles. Two marbles are selected without replacement. What is the probability that at least one is red?

A bowl contains 7 red marbles and 3 blue marbles. Two marbles are selected without replacement. Draw a tree depicting all outcomes.

What is the probability that the second marble is red? A bowl contains 7 red marbles and 3 blue marbles. Two marbles are selected without replacement.

A bowl contains 7 red marbles and 3 blue marbles. What is the probability that at least one is blue? Two marbles are selected without replacement.

Redundancy

- A certain type of battery operated alarm clock works 90% of the time.
- Bob buys two of these clocks.
- What is the probability on a given morning that both clocks fail?
- works? What is the probability that at least one