



3. The quality control inspector of a production plant will reject a batch of syringes if two or more defective syringes are found in a random sample of eight syringes taken from the batch. Suppose that the batch contains 1% defective syringes. What is the probability that the batch will be accepted?

4. *USA Today* reported that the U.S. (annual) birth rate is about 16 per 1000 people, and the death rate is about 8 per 1000 people. In a community of 1500 people, what is the probability of there being 16 births in a given year? What is the probability of 10 deaths?