

1. A die is rolled 9 times. What is the probability of rolling:
 - a. Exactly 3 sixes

 - b. No more than 4 fives

 - c. At least 3 twos

2. There is a 12% probability that a cookie will break while being shipped. If there are 40 cookies in the package, what is the probability that the package will contain:
 - a. 10 broken cookies?

 - b. At least 2 broken cookies?

 - c. No more than 6 broken cookies?