Module 5E Questions:

1. Which of the follow statements about distributions is not true?
   a. The normal distribution can be used as an approximation to the binomial distribution
   b. The Poisson distribution is used under conditions where n approaches 0 while p approaches infinity
   c. The binomial distribution expresses the probability of getting X successes out of n trials
   d. As degrees of freedom increase, the X^2 distribution approaches a normal distribution
2. Singleton babies born have a mean weight of 3.339 kg and a standard deviation of 0.573 kg.
   a. What is the probability a newborn weighs more than 5 kg?
   b. What is the probability a newborn weighs between 3 kg and 4 kg?
   c. What fraction of newborns will be > 1.5 sd from the mean?
   d. What fraction of newborns will be > 1.5 kg from the mean?
   e. A random sample of 10 newborns is taken, what is the probability that their mean weight would be > 3.5 kg?