**Name**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Date**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Unit 5 Quiz

Lets assume the random variable X follows a Binomial distribution with n = 12 trials, the probability of success p = 0.35.

Answer the following questions. **Show your work!**

1. P(X = 10)
2. P(X 3)
3. Probability X is at least 9
4. P(4 < X 6)
5. Probability X is at most 10
6. Calculate the mean E(X) and SD σ