

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. $P(X \geq 3)$

3. Probability X is at least 9

4. $P(4 < X \leq 6)$

5. Probability X is at most 10

6. Calculate the mean $E(X)$ and SD σ