1. An urn contains 7 green balls and 5 red balls. And experiment consists of drawing 4 balls with replacement and noting the color of each ball. Let $x$ be the random variable which counts the number of green balls in this sample.

(a) Develop the probability distribution of $x$.
(b) Find the mean of $x$.
(c) Find the standard deviation of $x$.

2. An urn contains 7 green balls and 5 red balls. And experiment consists of drawing 4 balls without replacement and noting the color of each ball. Let $x$ be the random variable which counts the number of green balls in this sample.

(a) Develop the probability distribution of $x$.
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3. Page 247, number 104.