

Group Questions

Work with you neighbors to answer the following questions.

1. A pea plant with genotype Dd is crossed with another pea plant with the same genotype. Suppose 3 seeds are taken from such a cross and successfully grown. Let X be the number of dwarf plants obtained. Find the probability distribution for X .
2. Find the expectation value of X .

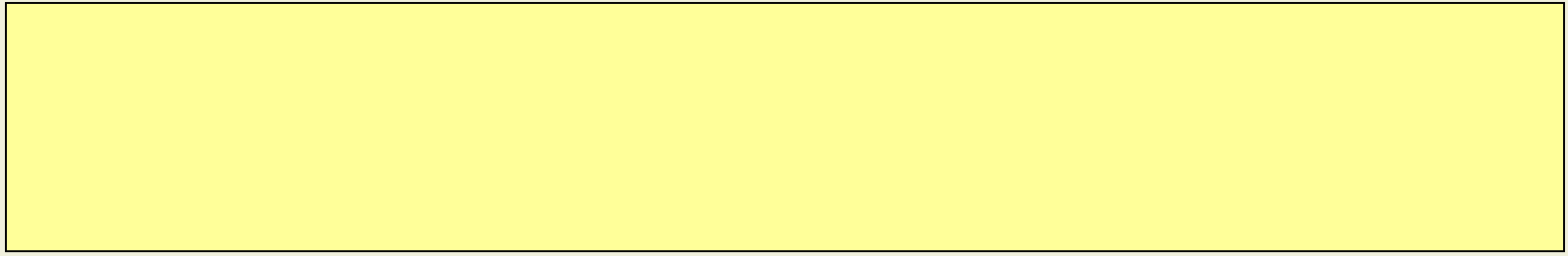
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3. If 4 seeds from a $Dd \times Dd$ cross are planted, what is the probability of getting exactly 1 dwarf plant? How about 2 dwarf plants?
4. If 40 seeds from a $Dd \times Dd$ cross are planted, what is the probability that exactly 1 quarter are dwarf plants?

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A large, empty yellow rectangular box with a thin black border, intended for students to write their answers to the group questions.