

In the plant *Brassica rapa*, the allele for purple stem color (**P**) is dominant to the allele for green stem color (**p**). Students in a biology class cross-pollinated a heterozygous purple-stemmed plant (**Pp**) with a green-stemmed plant (**pp**). The 78 seeds produced from this cross were planted to form the F_1 generation.

Approximately how many purple-stemmed plants and how many green-stemmed plants are expected in the F_1 generation?

- A. 0 purple-stemmed plants and 78 green-stemmed plants
- B. 39 purple-stemmed plants and 39 green-stemmed plants
- C. 58 purple-stemmed plants and 20 green-stemmed plants
- D. 78 purple-stemmed plants and 0 green-stemmed plants