## Use the following information to answer

In peas, the allele for round seeds (R) is dominant to that for wrinkled seeds (r); the allele for yellow seeds (Y) is dominant to that for green seeds (y). These loci are unlinked. Plants from a true-breeding line with round, green seeds are crossed with plants from a true-breeding line with wrinkled, yellow seeds. These parents constitute the P generation.

1. The genotypes of the P generation are (a) RRrr and Yyyy, (b) RrYy, (c) RRYY and rryy, (d) RRyy and rrYY, (e)RR and YY.

2. What are the expected genotypes of the F1 hybrids produced by the described cross? (a) RRrr and YYyy, (b) all RrYy, (c) RRYY and rryy, (d) RRyy and rrYY, (e) RR and YY

3. What kinds of gametes can the F1 individuals produce ? (a) RR and YY, (b) Rr and Yy, (c) RR, rr, YY, and yy (d) R, r, Y and y (e) RY, Ry; rY, and ry