C:\Documents and Settings\srinehart\Local Settings\Temporary Internet Files\Content.IE5\MPZD4JYO\MC900278848[1].wmf Punnett Square Review

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Class: \_\_\_\_\_\_\_\_ Score: \_\_\_\_\_\_\_\_\_\_\_

Complete each of the following.

1. A complete Punnett square shows
   1. Only the genotypes of parents and offspring
   2. How an offspring’s alleles might combine
   3. Only the dominant alleles in parents and offspring
   4. Genotypes and phenotypes of parents and offspring
2. A poodle with black fur (BB) is crossed with a poodle with brown fur (bb). What is the probability that the offspring will be black?
   1. 25 percent
   2. 50 percent
   3. 75 percent
   4. 100 percent
3. An organism with the genotype Dd is crossed with an organism with the same genotype. What is the ratio of offspring displaying the dominant allele to offspring displaying the recessive allele?
   1. 1:1
   2. 1:2
   3. 3:1
   4. 4:1
4. A ratio that compares a number to 100 is a(n)
   1. Percentage
   2. Probability
   3. Punnet number
   4. Prediction

Use for # 5-7: In pea plants, the allele for green pods (G) is dominant over the allele for yellow pods (g).

1. Draw a Punnett square that shows a cross between two parents that both have the genotype Gg.
2. What is the probability that offspring from this cross will have green pods?
3. What is the ratio of plants with green pods to those with yellow pods?