AP Biology

NAME\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_DATE\_\_\_\_\_\_\_\_\_\_

PUNNETT SQUARES

1. In pea plants Purple is the dominant trait for color. White is the recessive trait for color. If a true breeding plant with purple flowers is crossed with at true breeding plant for white flowers, what will the genotype and phenotype of the offspring be. Construct a Punnett Square to show your results.

1st determine the genotype of the parents:

Punnett Square

Genotypes:

Phenotypes:

1. In cross-breeding two of the offspring from the F1 generation, determine the genotype and phenotype of the offspring. What type of cross is this? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1st determine the genotype of the parents:

Punnett Square

Genotypes:

Phenotypes:

Genotypic Ratio:

Phenotypic Ratio:

AP BIOLOGY MS. BAKER

NAME\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_DATE\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

PUNNETT SQUARE PRACTICE

1. A pea plant that is heterozygous for color is crossed with a plant that is homozygous recessive. Determine the genotype and phenotype of the offspring.

1st Determine the genotypes of the parents

Punnett Square:

Genotypes:

Phenotypes:

Genotypic Ratio:

Phenotypic Ratio:

1. In a certain species of rabbit, brown is the dominant fur color (B), and white is the recessive color (b). Determine the offspring of a cross between two rabbits heterozygous for fur color. Use a Punnett Square to show your work Give the

genotype, phenotype and ratios for the offspring.

1. In pea plants, Tall is dominant (T) and short is recessive (t). For seed color yellow is dominant (Y) and green is recessive (y). Set up a dihybrid cross between plants heterozygous for both height and seed color. Use a punnett square to show your work and give the genotype, phenotype and ratios for offspring
2. In rabbits Brown is dominant for fur (B) and white is recessive (b). For fur texture Rough is dominant (R) and soft is recessive. Set up a dihybrid cross between rabbits where one is homozygous dominant and the other is homozygous recessive. Use a punnett square to show your work and give the genotype, phenotype and ratios for offspring.