

PUNNETT SQUARE PRACTICE WORKSHEET

assessment task:

Name:

date:

class:

Complete the Punnett Squares

Flower Color in Pea Plants
A heterozygous purple-flowered plant (Pp) is crossed with a white-flowered plant (pp).

Questions:

- What percentage of offspring will have purple flowers?
- What percentage will have white flowers?
- What is the genotypic ratio?
- What is the phenotypic ratio?

Challenge Question:

Genetic Probability
A red-flowered plant (RR) is crossed with a white-flowered plant (WW). The resulting offspring are all pink (RW) due to incomplete dominance.

Questions:

- If two pink-flowered (RW) plants are crossed, what are the possible flower colors of their offspring?
- What percentage will be red, pink, and white?

Dihybrid Cross: Stem Length & Leaf Color

- Tall stems (T) are dominant over short stems (t).
- Green leaves (G) are dominant over yellow leaves (g).

Questions:

- Complete the Punnett square for both traits (T and G).
- What are all possible combinations of stem length and leaf color?
- What percentage of offspring will be tall with green leaves?
- What percentage will be short with yellow leaves?