

Genetics Problems Packet

Complete each of the problems on a separate piece of paper. Be sure to include:

- A. a key showing the genotypes and phenotypes
- B. write the parents cross in words
- C. write the parents genotype
- D. punnett square
- E. genotypic ratio
- F. phenotypic ratio
- G. Answer any other questions that are asked relating to the problem.

Keep in mind that some problems may require more than one cross!!!

Monohybrid Problems:

1. Cross a heterozygous pea plant, which bears its flowers axially with a homozygous pea plant, which bears its flowers terminally.
2. Cross a heterozygous pea plant with smooth pods with a homozygous constricted pod plant.
3. Cross a homozygous yellow-seeded pea plant with a homozygous green-seeded pea plant.
4. Short hair is dominant over long hair in guinea pigs. Cross a homozygous short-haired female guinea pig with a long-haired male. If their offspring were to mate and produce an F₂ generation, what genotypic and phenotypic offspring will result and in what ratio.
5. Two brown mice were mated and twelve offspring resulted. Nine of the offspring were brown, and three were white. How can this be explained?
6. Starchy grain is dominant over sugary grain in corn. If a cross between these two types of corn was performed and 58 of the offspring were sugary, how many would you expect to be starchy?
7. Use your imagination. A pink circus elephant and a green circus elephant were mated and only pink baby elephants were born. If two of these offspring were mated and eventually produced a total of 64 baby elephants, how many of these should be pink and how many should be green?
8. Short hair is dominant over long hair in guinea pigs. A short-haired guinea pig (one of its parents had long hair) was mated with a long-haired guinea pig. If blindfolded, you selected one of the guinea pigs from the cage, what is the chance that you would get a long-haired animal?

Genetics Problems Packet

Richard Schwindt



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