

Genetics Problems Worksheet

Simple Monohybrid Crosses

A simple monohybrid cross deals with only one set of characteristics caused by one pair of genes.

Example: Cross a white mouse with a black mouse. We will assume that fur color is determined by one pair of genes. Therefore, we will designate a letter of the alphabet to represent this trait. Homozygous black will be represented by "AA," and homozygous white (the only way we would have white) will use the letters "aa." A heterozygous black mouse would be represented with "Aa."

Problem: The above cross could be done two ways since we do not know the genotype of the black mouse.

| | | | | | | | |
|---|----|---|----|----|----|----|----|
| | AA | X | aa | or | Aa | X | aa |
| | A | | a | | A | | a |
| a | Aa | | Aa | | a | Aa | aa |
| a | Aa | | Aa | | a | Aa | aa |

Cross a heterozygous black mouse with another heterozygous black mouse. Use letter "A."

| | |
|--|--|
| | |
| | |

Complete the following practice problems:

1. Cross two people who can taste PTC. One of the children cannot taste PTC. (The ability to taste PTC is dominant.)
2. Cross a black mouse with a white mouse. Although you don't know the genotype of the black mouse, there are white offspring.

Ap Bio Genetics Problems Answers

Rachel S Tattersall



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