Genetics Problems Worksheet

Simple Monohybrid Crosses

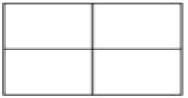
A simple monohybrid cross deals with only one set of characteristics caused by one pair of genes.

<u>Example</u>: 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."

<u>Problem:</u> 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	Α	_	Α	a
•	Aa	Aa	•	Aa	aa
. [Aa	Aa	a	Aa	aa

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



Complete the following practice problems:

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

Genetics Practice Problems Monohybrid And Dihybrid

Anthony J.F. Griffiths

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