



# MONOHYBRID CROSS WORKSHEET 3

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## Monohybrid cross problems

1. A gene encoding mouse coat color has two different alleles that either encode gray (G) or white (g) fur, or dominant and recessive traits, respectively.

a. What would the genotypes and phenotypes of the F1 generation be if a heterozygous gray mouse is mated with a white mouse?

P1 cross: Gg x gg

F1 genotype(s): 1/2 Gg, 1/2 gg

F1 phenotypes: 1/2 gray, 1/2 white

	G	g
g	Gg	gg
g	Gg	gg

b. What would the F1 genotypes and phenotypes be if a homozygous gray mouse mates with a white mouse?

P1 cross: GG x gg

F1 genotype(s): All Gg

F1 phenotypes: All gray

	G	G
g	Gg	Gg
g	Gg	Gg

2a. Two mice with unknown coat colors mated and produced the following offspring: 8 gray coated- and 4 white-coated mice. What were the genotypes and phenotypes of the parents?

P1: Gg x Gg, both gray.

[Gg x Gg] produces 1/4 gg, 1/2 Gg, 1/4 GG. Out of 12 siblings, ((1/4 + 1/2) = 3/4), or 8, are expected to be GG or Gg, or gray. 1/4 of 12, or 4, are expected to be gg, or white.

2b. If the parents produced all gray offspring, what were the genotypes and phenotypes of the parents?

P1: GG x gg, gray and white.

2c. If 50% of the offspring were gray, what were the phenotypes and genotypes of the parents?

P1: Gg x gg, gray and white.

3. A species of orchids have a gene encoding either a dominant pink (P) or recessive white (p) flower color trait. If a heterozygous pink and white flower were crossed, what is the probability that the offspring have white flowers?

50%



# Monohybrid Cross Problems 2 Answers

**Kenneth G. Neal, Barbara H. Kalbus**



## Monohybrid Cross Problems 2 Answers:

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