ANSWER KEY

DIHYBRID CROSS WORKSHEETS



In rabbits, gray hair is dominant to white hair. Also in rabbits, black eyes are dominant to red eyes. These letters represent the genotype of the rabbits :

GG = gray hair	BB = black eyes
Gg = gray hair	Bb = Black eyes
gg - white hair	bb = red eyes

1. What are the phenotypes (descriptions) of rabbits that have the following genotypes?

Ggbb = Gray hair, Red eyes	ggBB = White hair, Black eyes
ggbb - White hair, Red eyes	GgBb = Gray hair, Black eyes

A male rabbit with genotype GGbb is crossed with rabbit with genotype ggBB the square is set up below. Fill it out and determine the phenotypes and proportions in the offspring.

_	GЬ	GР	GР	GР
gB	GgBb	GgBb	GgBb	GgBb
gВ	GgBb	GgBb	GgBb	GgBb
дь	Ggbb	Ggbb	Ggbb	Ggbb
дЬ	Ggbb	Ggbb	Ggbb	Ggbb

- How many out of 16 have gray fur and black eyes? &
- · How many out of 16 have gray fur and red eyes? 8
- . How many out of 16 have white fur and black eyes? -
- · How many out of 16 have white fur and red eyes? -
- a. A male rabbit with genotype GgBb is crossed with rabbit with genotype GgBb the square is set up below. Fill it out and determine the phenotypes and proportions in the offspring.

	GB	GP	9B	gb
GB	GGBB	GGBb	GgBB	GgBb
σЬ	GGBb	GGbb	GgBb	Ggbb
gB	GgBB	GgBb	ggBB	ggBb
gb	GgBb	Ggbb	ggBb	ggbb

- . How many out of 16 have gray fur and black eyes? 9
- · How many out of 16 have gray fur and red eyes? 3
- How many out of 16 have white fur and black eyes? 3
- How many out of 16 have white fur and red eyes? 1



Practice Problems On Dihybrid With Answer Keys

Phillip E. Pack, Ph.D.

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