

Genetics Worksheet

Part 1 Introduction:

1. Describe the genotypes given (use your notes). The first two are already done.

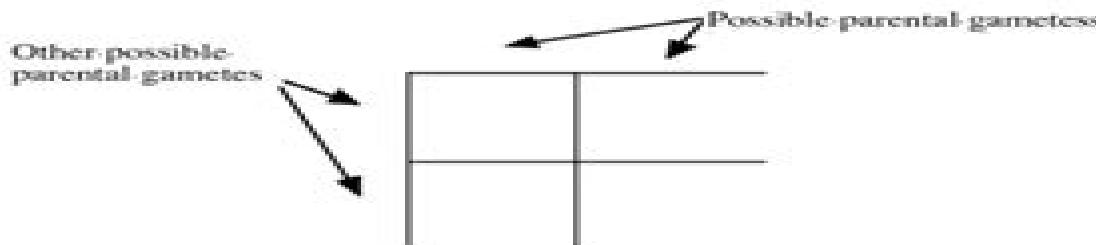
A. DD <i>homozygous, dominant</i>	D. ss <i>homozygous, recessive</i>
B. Dd <i>heterozygous</i>	E. Vy <i>heterozygous</i>
C. dd <i>homozygous, recessive</i>	F. WW <i>homozygous, dominant</i>
2. In humans, brown eye color (B), is dominant over blue eye color (b). What are the **phenotypes** of the following genotypes? In other words, what color eyes will they have?

A. BB
B. bb
C. Bb

The Five (5) Steps Associated With Solving a Genetics Problem:

If you take the time to follow the directions below, you will be able to solve most genetics problems.

1. Determine the genotypes of the parents or whatever is given in problem.
2. Set up your **Punnett square** as follows: # sq. based on possible gametes that can be formed.



3. Fill in the squares. This represents the possible combinations that could occur during fertilization.
4. Write out the possible **genotypic ratio** of the offspring.
5. Using the **genotypic ratio** determine the **phenotypic ratio** for the offspring.

Part 2: Sample Problem (Just read this over, it is a practice problem)

A heterozygous male, black eyed mouse is crossed with a red eyed, female mouse. Predict the possible offspring!

Step 1: Determine the genotype of the parents. The male parent is **heterozygous** which means he has one allele for black eyes and one allele for red eyes. Since his eyes are black, this means that black allele must be dominant over the red allele. So the male parents genotype is "Bb" (B = allele for black eye, b = allele for red eye). The female parent has red eyes, there is only one way to have this recessive phenotype, so she must be **homozygous recessive**. **Homozygous recessive** means that her genotype must be "bb". Therefore, genotype of the parents is Bb x bb.

Answer Key To Smileys Genetics

Bob McGrath

Answer Key To Smileys Genetics:

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Atoms, Bytes and Genes Martin W. Bauer,2015-02-11 Atom

byte and gene are metonymies for techno scientific developments of the 20th century nuclear power computing and genetic engineering Resistance continues to challenge these developments in public opinion This book traces historical debates over atoms bytes and genes which raised controversy with consequences and argues that public opinion is a factor of the development of modern techno science The level and scope of public controversy is an index of resistance examined here with a pain analogy which shows that just as pain impacts movement resistance impacts techno scientific mobilization it signals that something is wrong and this requires attention elaboration and a response to the challenge This analysis shows how different fields of enquiry deal with the resistance of social psychological mentalities in the face of industrial scientific and political activities inspired by projected futures

Fundamental Molecular Biology Elizabeth A. Allison,2021-07-07

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Books in Print ,1956 **Motion Picture Herald** ,1948 **Columbia Pictures Movie Series, 1926-1955** Gene Blottner,2011-12-22 Blondie Boston Blackie Ellery Queen The Lone Wolf Gasoline Alley Jungle Jim There were 27 film series produced and released by Columbia Pictures from 1926 through 1955 This reference book covers the origins of the popular fictional characters featured as well as their appearances in other media comics novels radio and television Also provided are thumbnail biographies of the actors who brought these characters to life The films themselves are examined in detail with release dates cast and production credits synopses reviews the author s summation the publicity tag lines and the songs heard Additionally most of the outdoor locations used in filming such Columbia western series as Wild Bill Saunders and The Durango Kid are identified

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