

Mendelian Genetics Worksheet

Fill in the Punnett squares for each cross given to determine the phenotype and genotype ratios of the offspring

Crosses with one homozygous dominant parent:

	<u>AA x AA</u>	
	A	A
A	AA	AA
A	AA	AA

Offspring Genotypes:

AA 4 Aa 0 aa 0

Offspring Phenotypes:

Dominant 4

Recessive 0

	<u>AA x Aa</u>	
	A	A
A	AA	AA
a	Aa	Aa

AA 2 Aa 2 aa 0

Dominant 4

Recessive 0

	<u>AA x aa</u>	
	A	A
a	Aa	Aa
a	Aa	Aa

AA 0 Aa 4 aa 0

Dominant 4

Recessive 0

Crosses with one heterozygous parent:

	<u>Aa x AA</u>	
	A	a
A	AA	Aa
A	AA	Aa

Offspring Genotypes:

AA 2 Aa 2 aa 0

Offspring Phenotypes:

Dominant 4

Recessive 0

	<u>Aa x Aa</u>	
	A	a
A	AA	Aa
a	Aa	aa

AA 1 Aa 2 aa 1

Dominant 3

Recessive 1

	<u>Aa x aa</u>	
	A	a
a	Aa	aa
a	Aa	aa

AA 0 Aa 2 aa 2

Dominant 2

Recessive 2

Answers For Study Guide Section 2 Mendelian Genetics

Arshad Iqbal



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respiration photosynthesis mitosis and cell reproduction genetics DNA and plant and animal structures and functions The target audience is high school and college students 96% of high school students take a biology course before graduating and biology 101 is a staple at all colleges and universities *Behavior Genetics* John L. Fuller, Edward C. Simmel, 2021-09-30 Originally published in 1983 this volume is a collection of papers by research workers active at the time It includes reviews of special areas within the field and discussions of interactions with other behavioral sciences such as psychology ethology and sociobiology Applications to medicine psychiatry and education are also considered Contributors were encouraged to integrate history present knowledge and projections for the future Although the book is not divided into sections there is some grouping of related chapters *Essential Genetics* Daniel L. Hartl, Elizabeth W. Jones, 2002 bull bull Genetics bull Principles of Genetics bull Introduction to Genetics *How we Get Mendel Wrong, and Why it Matters* Kostas Kampourakis, 2023-12-28 This book illustrates that the stereotypical representations of Gregor Mendel and his work misrepresent his findings and their historical context The author sets the historical record straight and provides scientists with a reference guide to the respective scholarship in the early history of genetics The overarching argument is twofold on the one hand that we had better avoid na ve hero worshipping and understand each historical figure Mendel in particular by placing them in the actual sociocultural context in which they lived and worked on the other hand that we had better refrain from teaching in schools the naive Mendelian genetics that provided the presumed scientific basis for eugenics Key Features Corrects the distorting stereotypical representations of Mendelian genetics and provides an authentic picture of how science is done focusing on Gregor Mendel and his actual contributions to science Explains how the oversimplifications of Mendelian genetics were exploited by ideologues to provide the presumed scientific basis for eugenics Proposes a shift in school education from teaching how the science of genetics is done using model systems to teaching the complexities of development through which heredity is materialized **Encyclopedia of Genetics** Eric C.R. Reeve, 2014-01-14 The Encyclopedia includes 125 entries beginning with the origins of genetics including historical background on the work of Gregor Mendel and Charles Darwin and progressing to the structure of DNA and modern theories such as selfish genes All branches of genetics are covered including the genetics of bacteria viruses insects animals and plants as well as humans Important topical issues such as the human genome project bioethics the law and genetics genetic disorders GM crops and the use of transgenic animals for food and pharmaceutical products are fully surveyed A section on techniques and biotechnology includes modern methods of analysis from DNA fingerprinting to the new science of bioinformatics The articles all written by specialists are largely non mathematical and progress from general concepts to deeper understanding Each essay is fully referenced with suggestions for further reading The text is supplemented by extensive illustrations tables and a color plate section The Encyclopedia of Genetics will be a valuable companion for all those working or studying in the various fields of genetical research and a fascinating reference for all readers with a basic background in biology Also includes color

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