

NAME:	PERIOD:	DATE:
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## **GENETICS HOMEWORK #1**

Answer the following questions. You may use your notes to assist you.					
PART ONE: Multiple Choice. WRITE THE LETTER IN THE BLANK!					
1 A characteristic of an organism that is based on information stored in its DNA.					
A. gene	B. allele	C. dominant	D. trait		
2 This type of allele can't "show up" (as a phenotype) unless two of them are together.					
L. gene	M. homozygous	N. recessive	O. dominant		
3 If Brown eyes is dominant (B) and blue is recessive (b) and Buford has blue eyes what is his genotype?					
A. bb	B. Bb	C. BB	D. Both B and C are correct		
4 A piece of DNA that contains the code for one trait is called a					
G. allele	H. trait	I. gene	J. dominant		
5 If red flowers (R) are incompletely dominant with blue flowers (B) then what color will a flower with genotype RB turn out as?					
R. red	S. purple	T. blue	U. colorless		
6 A trait with more than two alleles is					
A. recessive	B. a multiple allele trait	C. a gene	D. incompletely dominant		
7 Red flower is (R) and green flower is (g.) What is the chance that parents who are Rg and Rg will have green kids?					
O. 25%	P. 50%	Q. 75%	R. 0%		
8 Which of the following is a genotype?					
N. blue eyes	O. Hh	P. red flower	R. Both N & P		
9 Eacl	n of the different pieces o	of code in a gene are call	ed (One from each parent.)		
I. genes	J. genotypes	K. phenotypes	L. alleles		
PART TWO: True or False. FIX THE FALSE ONES!					
10. True or False, DNA is found in every cell in your body					

- 11. True or False. Dominant alleles are <u>always</u> dominant to recessive alleles.
- 12. True or False. An organism could be homozygous and recessive for all their traits.

