

DIHYBRID CROSS WORKSHEET 1

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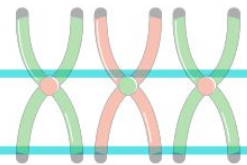
Name

Date

Vocabulary: fill in the Blanks

- ___1. A cross between parental organisms that have a variation in a single gene or trait.
- ___2. A cross between parental organisms that differ in two different traits.
- ___3. Square diagram used to predict genotypes of mated individuals.
- ___4. A basic unit of hereditary information.
- ___5. A characteristic or attribute associated with a gene.
- ___6. A variation of a gene.
- ___7. Type of allele that solely produces an observed trait.
- ___8. An allele with masked effects.
- ___9. Inheriting different alleles of a given gene from each parent.
- ___10. Inheriting the same alleles of a given gene from each parent.
- ___11. The frequency of a given genotype.
- ___12. The frequency of physical attributes being observed.
- ___13. Traits with phenotypes influenced by two or more genes.

- A. Gene
- B. Heterozygous
- C. Dominant
- D. Recessive
- E. Genotypic frequency
- F. Polygenic traits
- G. Monohybrid cross
- H. Allele
- I. Dihybrid cross
- J. Phenotypic frequency
- K. Homozygous
- L. Punnett square
- M. Trait



Determine the genotypic frequencies:

	H	h
H		
h		

HH: ___
Hh: ___
hh: ___

	a	a
A		
a		

AA: ___
Aa: ___
aa: ___

	B	b
B		
b		

BB: ___
Bb: ___
bb: ___

- YYRR: _____
- YYRr: _____
- YYrr: _____
- YyRR: _____
- YyRr: _____
- Yyrr: _____
- yyRR: _____
- yyRr: _____
- yyrr: _____

	YR	Yr	yR	yr
YR	YYRR	YYRr	YyRR	YyRr
Yr	YYRr	YYrr	YyRr	Yyrr
yR	YyRR	YyRr	yyRR	yyRr
yr	YyRr	Yyrr	yyRr	yyrr