Name:	Class Period:
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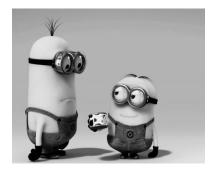


## Punnett Square Practice: Minion Genetics

Gru has asked Dr. Nefario to help him get the best Minions possible. He wants to find out which traits are more likely to be seen in his Minions. He is going to observe the phenotypes and then use his special science tool to help him predict genotypes of future Minion populations.

	Minion populat	ions.				
What is the na	me of the special s	cience tool he ca	in use to predict	genetic outco	mes?	
	e notypes in the list l					_·
two eyes	EE combed ha	air sprout hair	Hh hh	one eye	ee	
Genotypes are	the combination of	of alleles that dete	ermine a trait. C	Circle the geno	types in the list below:	
sprout hair	Hh EE one	e eye ee	two eyes	hh com	bed hair	
A dominant tra	ait is					
A recessive tra	nit is					-· 
each genotype	as showing a dom Heterozygous or	inant or recessiv	e phenotype.	Dominant o	ous genotype. Then, la	e? 
Predicting the	Having two Square for	the cross of a h	eterozygous fer	male Minion	inions. Make a Punno with a one-eyed male comes in a percent	ett

Created by: J. Lovejoy



Hair (H) in Minions is a trait to be admired. Having sprout hair is dominant to combed down hair. Show a cross between a homozygous mom with sprout hair and a purebred dad with sprout hair. Give the genotype and phenotype ratios for the offspring.

Short phenotypes are a recessive trait in Minions. Show the cross between two hybrid Minions and answer the questions below.

T =		
t =		
What is the genotype of the mom?		
What is the genotype of the dad?		
What is the percent chance of having a short baby?		
What is their possible genotype?		
What is the percent chance of having a homozygous tall b	nahy?	
what is the percent chance of having a homozygous tail to	,uoy	
What is the percent chance of having a heterozygous tall	baby?	
What is the chance that these parents can have a purebred	hahv? Evplain your	ancwar
what is the chance that these parents can have a purcored	Daby: Explain your	answer

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