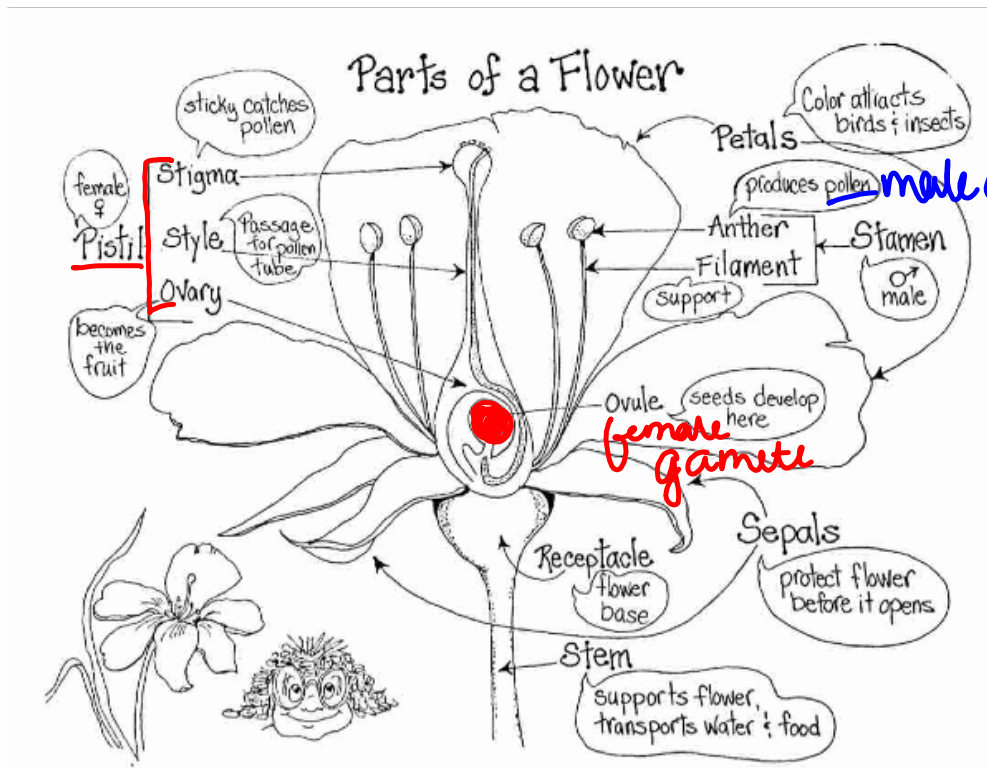


Mendel and Punnett Squares

Think about these 2 apples in real life, then answer the questions on your sheet.



Mendel and Punnett Squares



Mendel and Punnett Squares

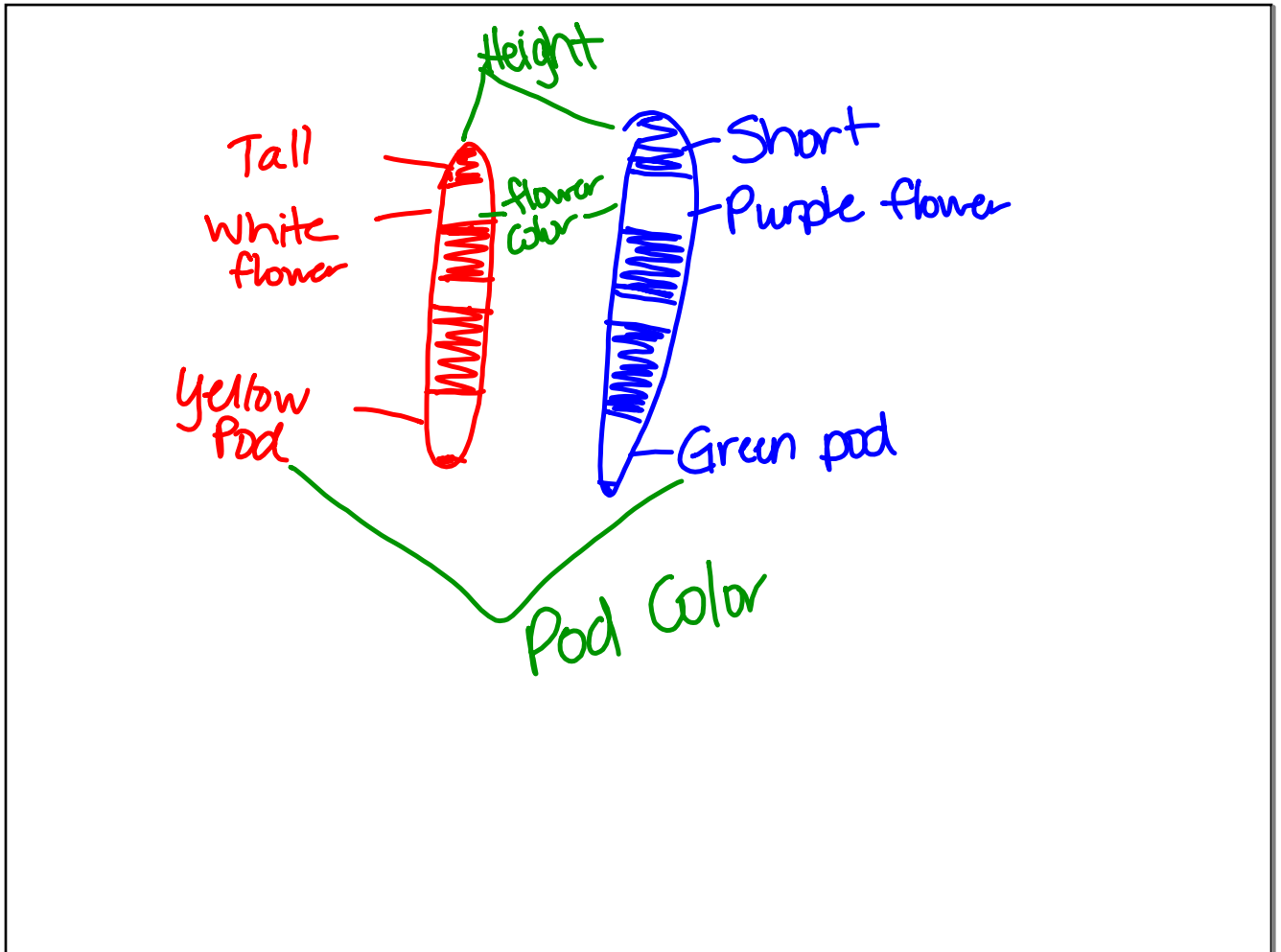
The Effect of Type of Trait on Characteristic Observed

Characteristic Category	Type of Characteristic	Number of Plants Showing Traits	Total Plants	% of Trait
Seed Shape	Round	5,474	7,324	
	Angular	1,850		
Pod Color	Green	428	580	
	Yellow	152		
Stem Length	Long	787	1,064	
	Short	277		

The Ratios of Characteristics

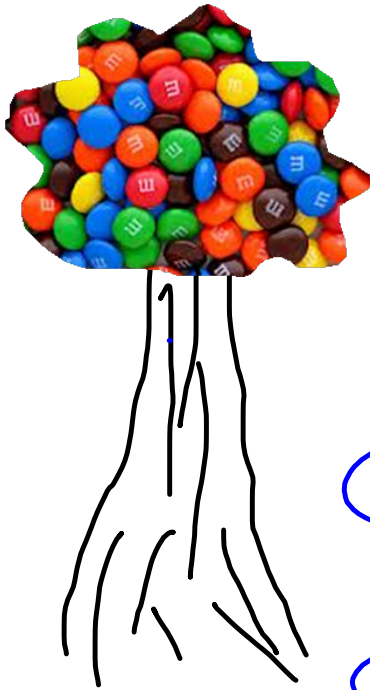
Characteristic Category	Type of Characteristic	Numbers of Plants Showing Trait	Type of Characteristic	Number of Plants Showing Trait	Ratio
Seed Shape	Round	5,474	Angular	1,850	2.959 : 1
Pod Color	Green	428	Yellow	152	2.816 : 1
Stem Length	Long	787	Short	277	2.841 : 1
Total Number of Plants	Dominant	6,689	Recessive	2,279	

Mendel and Punnett Squares



Mendel and Punnett Squares

G
E
N
E
T
I
C
S



Dominant: allele that can hide other alleles.
T

Recessive: allele that can be hidden.
t

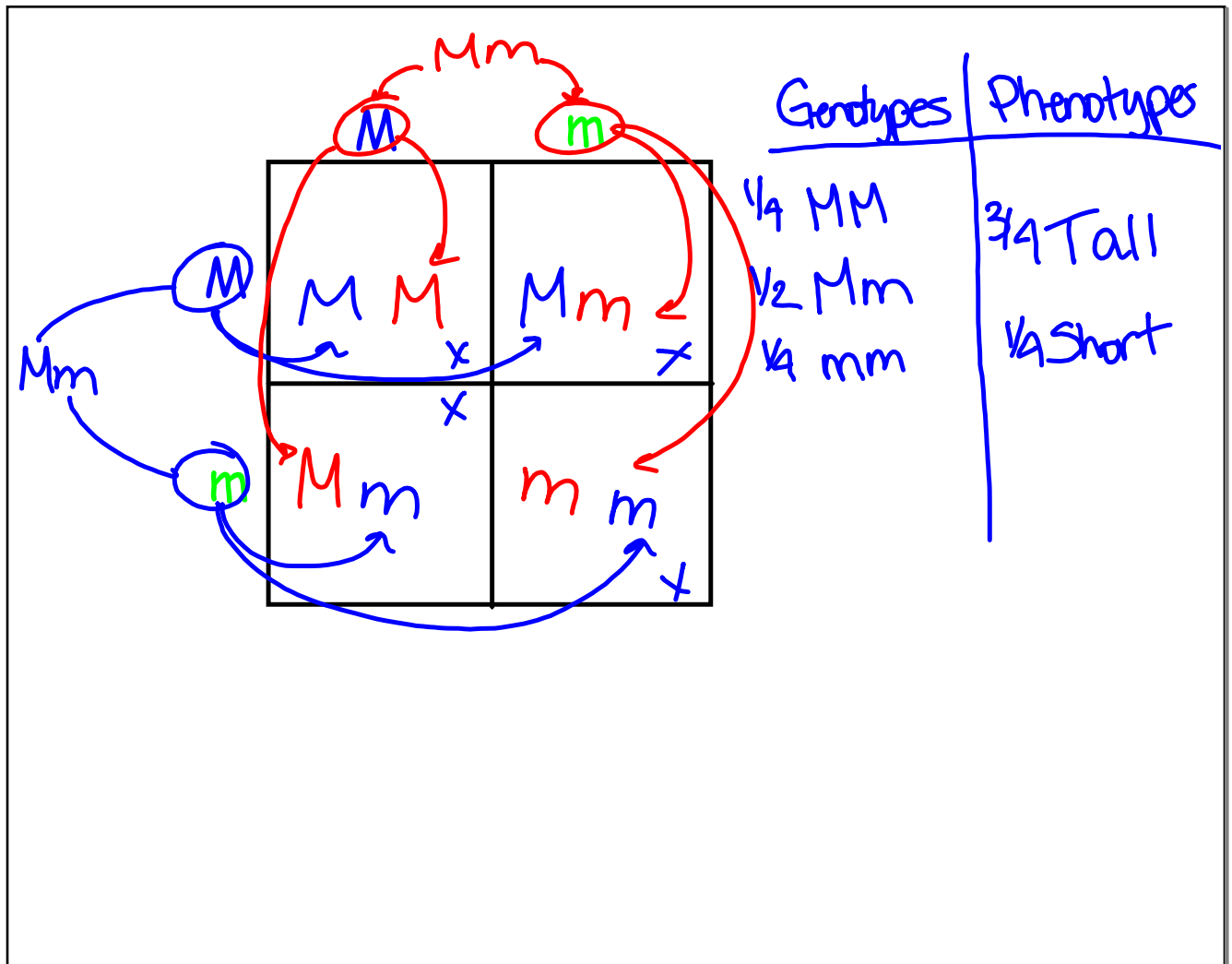
Homozygous ^{Purebred}: same alleles
TT tt

Heterozygous ^{Hybrid}: different alleles
Tt tT

Genotype: gene combinations
TT Tt tt

Phenotype: physical trait
Tall Short

Mendel and Punnett Squares



Mendel and Punnett Squares

	M	M
M		
M		



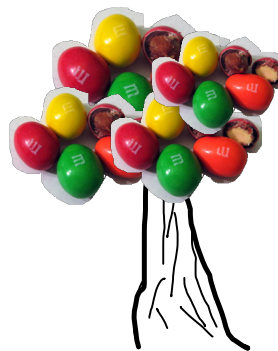
Mendel and Punnett Squares



M

M

	m	m



Mendel and Punnett Squares

