Directions: Use your knowledge of genetics to complete the following activity.

Given information:

Characteristic	Dominate Gene	Recessive Gene
Height	Tall (T)	Short (t)
Eye Number	One (E)	Three (e)
Lip Color	Purple (L)	Green (1)
Fang Number	One (F)	Two (f)

Use the information in the cha	art to write the genotype(s) for each trait below.
a) One eye	c) Two Fangs
o) Short	d) Purple Lips
Determine the genotypes for	or each using the information in the chart.
a) Heterozygous purple lips	c) Homozygous one eye
b) Hybrid one fang	d) Purebred tall
Marge's genotype? Co	eterozygous tall Zork and her mother is a short Zork, what is omplete the Punnett square to show the possible genotypes p you determine Marge's genotype.
	p you determine Marge's genotype. notype?
b. George is heterozygou	us for this height. What is his genotype?
 Complete the Punnett Marge had offspring. 	square to show the possibilities that would result if George and
	 d. List the possible genotypes and phenotypes for the kids.
	e. What is the probability of tall Zork kids?%
	f What is the probability of short 7 ork kids?



line is	e's aunt and uncle, Zit and t. Zilla is believed to be he oure. Complete the Punne ave offspring.	terozygous f		Zit's family	y brags the	at their blo	
a.	Give the genotype of ed	och zork.	Zit		Zilla		_
	Complete the Punnett sq children. List the possible genotype					they had	
						8	
d.	What is the probability the	at the kids w	vill have purple li	bsš	%	8 <u>.</u>	_
e.	What is the probability the	at the kids w	vill have green lip	osę	_%		
ate a	e possible for them to ho Punnett square to help y	ou answer	this question.				
n plan	Punnett square to help y et A273 Quiddlers are a po	opular type o	of pet bird. Use	ns below.			
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n plan our kno Writ	et A273 Quiddlers are a po owledge of heredity to cor e the correct genotype(s)	opular type mplete the p for each pe	of pet bird. Use practice problem t bird. G repres Blue	ns below. ents gree	n, and g re	epresents	
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n plan our kno Writ	et A273 Quiddlers are a populedge of heredity to core the correct genotype(s) Green It would happen if a heteroplete the Punnett square a. V	opular type opposed for each percent of the control	of pet bird. Use practice problem t bird. G repres Blue- en Quiddler and the chances o	ns below. ents gree I a blue Q If each bir pird offspr	n, and g re uiddler ma d color. ring would	epresents ated? d be green	blu

