## Incomplete and codominance practice #1

Directions: Read each statement and determine the pattern of inheritance.

- 1. Birds can be blue, white, or white with blue-tipped feathers.
- 2. Flowers can be white, pink, or red
- 3. A hoo can have curly hair, spiked hair, or a mix of both curly and spiked.
- 4. A sneech can be tall, medium, or short.
- 5. A Bleexo can be spotted, black or white.

Trolls can have red, blue or purple hair. The allele that controls this trait is INCOMPLETELY DOMINANT, where purple hair is caused by the heterozygous condition.

genotype	phenotype
ВВ	
	red
BR	

Stanley has purple hair and is married to Julia who brags that she has the bluest blue hair in the valley.

- a. How many of Julia's children will be able to brag about their blue hair also?
- b. How many will take after their father
- c. Show a cross to prove your answers.

d. One of Julia's children is born with shocking red hair. Is Stanley
the father of this child?

e. But wait, Julia swears that she has been faithful, she claims the hospital goofed and got her baby mixed with someone else's. Is Julia the mother of the red-haired child?



Olga has of these			liver who	has blue hair	r. They have 3	36 children. Wha	at is the color
Show a c	ross to pr	ove it.					
		Patrick. Both of d in what propo Blue		e purple hair. Purple	They have 100	) children. What is	s the hair colo
Show a cre			,,0	ruipic	70		
onow a cr	035 to p. 0						
In Alpachi	an Aliens,	hair color is a	codominan	t trait. They c	an either have	purple, green or	purple and

green hair. Fill in the key for hair color.

genotype	phenotype		
PP			
	green		
PG	Purple and green hair		



On planet Alpachia, purple hair is highly values. Purple haired aliens get special benefits. Oscar has purple and green hair but her wants a wife that will give him children with purple hair.

- a. What color hair should he look for in a wife?
- b. If he can't find this type of alien, what should be his second choice?

Ophelia is not married but she wants to have children. She goes to a fertility clinic where she is fertilized by an anonymous sperm donor. Ophelia has green hair. 5 months later, a litter or aliens are born. There are 8 babies in the litter, 4 have purple and green hair and 4 have green hair.

- a. What color did the babies father have?
- b. Show a cross to prove it.

