Incomplete and codominance practice #2

In a certain cactus, prickly spines can be two pronged or one pronged. If a true breeding one-pronged cactus is crossed with a true breeding two-pronged cactus, the F1 generation has a mixture of spines, some are two pronged, some are one-pronged.

- a. Is this an example of codominance or incomplete dominance?
- Show the F2 generation (a cross between the two F1's) What are the phenotypes and in what proportion? (Key O =one pronged, T= two pronged)

Phenotypes		
One pronged	%	
Two pronged	%	
One and two pro	onged	%

In the same cactus, if you crossed a plant that has red flowers to one that has yellow flowers, you produce a cactus that has orange flowers. (Key R=red and Y=yellow)

- a. Is this codominance or incomplete dominance?
- b. Show the cross of an orange flowered plant to a red flowered plant.

Phenotypes:			
Red flowers	%	orange flowers	%
Yellow flowers		%	



A cross between a black cat and a tan cat produces a tabby patter	n (black and tan
fur together) (Key B=black T=tan)	

- a. What pattern of inheritance does this illustrate?
- b. What percentage of kittens would have tan fur if a tabby cat is crossed with a black cat?

		Tan	fur=	%

A cross between female blue blahblah bird and a male white blahblah bird produced offspring that are silver. (key B=Blue W=white)

- a. What pattern of inheritance does this illustrate?
- b. What are the genotypes of the parents in the original cross?

Mom Dad

- c. What is the genotype of the silver bird?
- d. What would be the phenotypic ratios of the offspring produced by two silver birds?

	Phenotypes:					
	Blue	%	White	%	Silver	%

