Co-dominance Problem Set	
1. In horses, chestnut and white coat colors are codominant. Heterozygous horses have a blend of	
both colors, which creates a patchy coloured horse. Such heterozygous horses are known as palominos (like Mr. Ed). What would be the result of a chestnut crossed with a palomino?	
paroininos (nke ivir. Ed). What would be the result of a chestilut crossed with a paroinino:	
$C^{\prime}C^{\prime}\times C^{\prime}C^{\prime\prime}$	
c = c FO% Chostnot 1:1	
cocce 50% Chestrut 1:1	
C° C°C°C°C° 50% Paronons	
Ch [CCh [Ccm]	
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? Explain	
CO-downance > BOTH Rull expressed 1	
MININE ENGINEER () DOUGHOUSE > 20 NEW PRODUCE	j
b. Show the F2 generation (a cross between the two F1's). What are the phenotypes of the	
offspring and in what proportion.	
7 9.5° 1.6.1	
5 1551551 mo provoked: 2 b	Ö
2 2 2 2 2 2 Pro	SH.
5° 55'55' 5° 565 1 two prono	y
3. Coat colour in cats is a codominant trait. Cats can be black, yellow or calico. A calico cat has	
black and yellow splotches. In order to be calico, the cat must have an allele for the black color and an allele for the yellow color. A female calico cat is crossed with a male black cat. What are	
the phenotypes and genotypes of the offspring and in what proportion.	
OBOB CYCY OBOY-calico	
LCCCCTanco	
2 / 2	
CBCY CBCB: 1CBCY	
50%	
00/08/08/11	
Color CROI	
US CRCR CRCI	