Name	
Date	Per

Bozeman Science: MENDELIAN GENETICS

(h	ttp://www.bozemanscience.com/	/029-mendelian-g	genetics)	
1) Complete the Punnett	Square below for the following c	ross: Pp x Pp		
2) The Law of Segregation	on explains that the odds of inher	riting "P" vs. "p" fi	rom a parent	(whose genotype
is Pp) is:				
3) Independent assortme	ent means that genes			·
Practice Problems:				
1) A coin is flipped four ti flip will come up heads?	mes and comes up heads each t	time. What is the	e probability t	hat the next coin
·				
Round (R) is	dominant to wrinkled (r). Ye	ellow (Y) is dor	ninant to g	reen (y).
2) Classify the following a	as heterozygous or homozygous	:		
RR:	Rr:	yy:		_
YyRR:				
3) What is the phenotype	of the following:			
Yy:	Rr:	yy:		
4) what is the probability	of Rr x Rr producing wrinkled se	eus?		

5) What is the pro	obability of Yy x yy p	roducing green se	eds?		
6) What is the pro	bability that RrYy x	RRYy would prod	uce RrYy?		
DISEASE:					
	to an individual who	has Huntington's	Disease?		
5) Is Huntington's	Disease dominant of	or recessive?			
6) What are some Disease?	e of the ethical / mor	al issues that arise	e as a result of de	eveloping a test	for Huntington's