Punnett square worksheet

Complete the following monohybrid crosses: draw a Punnett square, list the ratio and describe the offspring. Be sure to remember that the capital letter is dominant.

	G	G	
G	GG	GG	Genotype= 2 GG: 2 Gg; 0 gg
g	Gg	Gg	Phenotype= 4 Green pea plants: 0 yellow pea plants
S			
1) A green pea plant (	(Gg) is cro	ssed with a	yellow pea plant (gg).
Genotype Phenotype			
2) A tall plant (TT) is	crossed w	ith a tall pla	nt (Tt).
Genotype:			
Phenotype	=		
3) A tall plant (Tt) is o	crossed wit	h a short pla	ant (tt).
Genotype=	·		
Phenotype			
4) A red flower (Rr) is	s crossed w	ith a white	flower (rr).
Genotype=			
Phenotype	=		
5) A white flower ()	in arcsas d	with a white	a flower (rr)
5) A white flower (rr)		wiui a white	5 HOWEL (II).
Genotype=	_		

6) A black chicken (BB) is crossed with a black chicken (I	ВВ).
Genotype= Phenotype=	
Punnett square problems co	ontinued
Complete the following problems. List the parent genotypes, dra the offspring genotypes and phenotypes.	aw and fill in a Punnett square, and then list
A homozygous dominant brown mouse is crossed with recessive color).	a heterozygous brown mouse (tan is the
Genotype=	
Phenotype=	
2. Two heterozygous white (brown fur is recessive) rabbit	s are crossed.
Genotype=	•
Phenotype=	
3. Two heterozygous red flowers (white flowers are recess	sive) are crossed.
	,
Genotype=	
Phenotype=	
4. A homozygous tall plant is crossed with a heterozygous	tall plant (short is the recessive size)
	print (cheer to the receptive office).
Genotype=	
Phenotype=	
5. A heterozygous white rabbit is crossed with a homozygo	ous black rabbit.
Genotype=	
Phenotype=	

## Punnett square worksheet

Complete the following monohybrid crosses: draw a Punnett square, list the ratio and describe the offspring. Be sure to remember that the <u>capital letter is dominant</u>.

Example)

A green pea plant (GG) is being crossed with a green pea plant (Gg) yellow is the recessive color.

	G	G
G	GG	GG
g	Gg	Gg

Genotype= 2 GG: 2 Gg; 0 gg

Phenotype= 4 Green pea plants: 0 yellow pea plants

1) A green pea plant (Gg) is crossed with a yellow pea plant (gg).

9 Gg 99 9 Gg 39

2) A tall plant (TT) is crossed with a tall plant (Tt).

	T	+	_
T	77	7	
t	Tt	Tt	

3) A tall plant (Tt) is crossed with a short plant (tt).

	T	t
t	7	tt
t	Tt	tt

4) A red flower (Rr) is crossed with a white flower (rr).

5) A white flower (rr) is crossed with a white flower (rr).

	11
Genotype=	4000
Phenotype=	4 white O

	2	رر	
•	r	rr	

	Genotype= 4 BB10 B BB BB Phenotype= 4 Black:0 B BB BB	(
	Punnett square problems continued	
	Complete the following problems. List the parent genotypes, draw and fill in a Punnett square, and then list the offspring genotypes and phenotypes.	
B: Brown	1. A homozygous dominant brown mouse is crossed with a heterozygous brown mouse (tan is the recessive color).	
b: tan	Genotype= 2 BB: 2Bb Phenotype= 4 Brown:0  B B B B BB B BB	
W = brown	2. Two heterozygous white (brown fur is recessive) rabbits are crossed.  Genotype=	
<b>Ω</b> = <b>□</b> .	Phenotype= 3 White:   Brown  W W  WWWW	
2 24	3. Two heterozygous red flowers (white flowers are recessive) are crossed.	
r= ned	Genotype= 1 RR; 2 Rr; 1rr Phenotype= 3 Red: 1 White RRRR	
	4. A homozygous tall plant is crossed with a heterozygous tall plant (short is the recessive size).	
T=tall t=short	4. A homozygous tall plant is crossed with a heterozygous tall plant (short is the recessive size).  Genotype= 2 TT: 2 Tt  Phenotype= 4	
	5. A heterozygous white rabbit is crossed with a homozygous black rabbit.	
W: White W: Black	Genotype= 2 Ww: 2 ww Phenotype= 2 White; 2 Black  Www ww  Www ww	

6) A black chicken (BB) is crossed with a black chicken (BB).