Name: _____ Date: _____ Period: _____

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.**

Example)

A green pea plant (GG) is being crossed with a green pea plant (Gg).

	G	G
G	GG	GG
g	Gg	Gg

Genotype = 50% GG: 50% Gg ; 0% gg

Phenotype = 100% Green pea plants: 0% White

1. A red rose (RR) is crossed with a white rose (rr).

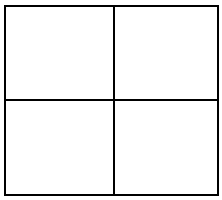
Genotypes = _____

_____

_____

Phenotypes = _____

_____



2. A tall bean (Tt) is crossed with a short bean (tt).

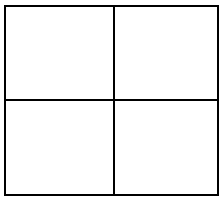
Genotypes = _____

_____

_____

Phenotypes = _____

_____



3. A red rose (Rr) is crossed with a red rose (RR).

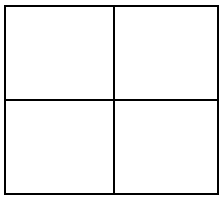
Genotypes = _____

_____

_____

Phenotypes = _____

_____



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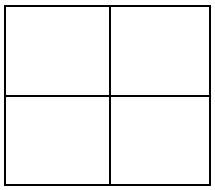
4. A black chicken (Bb) is crossed with a black chicken (Bb).

Genotypes = _____

_____

Phenotypes = _____

_____



Punnett square problems continued

Complete the following problems.

- List the parent genotypes,
- draw and fill in a Punnett square, and
- list the offspring genotypes and phenotypes.

1. A homozygous dominant brown mouse (BB) is crossed with a heterozygous brown mouse (Bb). Tan is recessive.

2. Two heterozygous long ear (Ll) rabbits are crossed. Short ear is recessive.

3. A homozygous tall (TT) plant is crossed with a homozygous short (tt) plant. Short is the recessive size.

4. A heterozygous white (Ww) rabbit is crossed with a homozygous black (ww) rabbit.