<u>Directions</u> : In addition to answering the question, complete a Punnett Square for each problem to <b>show your work</b> .	
Name:	Block:
<b>1.</b> If a Bb (brown-eyed) parent mated with a bb (blue-eyed) parent, <b>what are the possible <u>phenotypes</u> of the baby</b> ?	
2. If a homozygous dominant brown-eyed parent mated with a blue-eyed parent, what are the possible phenotypes of the	
baby?	
3. Is it possible for two brown-eyed parents to have a blue-eyed baby? What genotypes do the parents need to have?	
4. If a blue-eyed mother wanted to ONLY have brown-eyed children, what genotype would the father have to have to ensure all children would be brown-eyed?	

<u>Directions</u> : In addition to answering the question, complete a Punnett Square for each problem to show your work.
5. If a blue flower (Ff) parent mated with a pink flower (ff) parent, what would be the possible phenotypes of the baby?

**6.** If a homozygous dominant (blue flower) parent mated with a homozygous recessive (pink flower) parent, **what would be the possible phenotypes** of the offspring?

**7.** If a heterozygous long furred (LI) parent mated with a short fur (II) parent, what are the possible genotypes of the baby?

**8.** If a homozygous long furred (LL) parent mated with a heterozygous parent, **what would be the possible phenotypes** of the baby?