

Name _____

Date _____ Per _____ Asst _____



Punnett Squares Treasure Hunt

1. According to Mendel's _____, gene pairs separate and only one gene from each pair is donated to the egg or sperm.
2. The scientific name given to sex cells is _____.
3. The process in which sex cells or gametes are produced is called _____.
4. During meiosis of a homozygous tall plant, sperm are produced containing a single _____ gene.
5. During meiosis of a heterozygous tall plant, sperm are produced containing a single _____ or a single _____ gene.
6. Scientists use a chart called a _____ in order to show all of the possible outcomes of a genetic cross.
7. On the outside of the punnett square, the _____ of both parents are listed.
8. Above, and to the side of the chart, the possible _____ donated by each parent are listed.
9. Inside each square, the combinations of _____ produced by the union of the sperm and egg are listed.
10. In Mendel's first experiment, Mendel crossed a homozygous tall plant with a homozygous short plant. All resulting genotypes produced were _____.
11. All offspring phenotypes produced during this first experiment were _____.
12. In Mendel's second experiment, two hybrid plants were crossed. The result of such a crossing results in plants with both _____ and _____ phenotypes.