



# Inheritance of Traits

Worksheet

**AgriBiotechnology**  
*AgriScience & Society*

Interval 1  
Segment 4

---

1. What is the gene code, or genotype, for the height trait in each parent? (Remember that a red bead represents a tall, or "T," gene, and a yellow bead represents a short, or "t," gene.)
  - a. Mother's genotype \_\_\_\_\_
  - b. Father's genotype \_\_\_\_\_
2. What is the appearance, or phenotype, for the height trait in each parent?
  - a. Mother's phenotype \_\_\_\_\_
  - b. Father's phenotype \_\_\_\_\_
3. What is the offspring's genotype and phenotype for the height trait?
  - a. Genotype \_\_\_\_\_
  - b. Phenotype \_\_\_\_\_
4. Complete the Punnett square below. The mother's gene code should be placed across the top and the father's along the left side.


5. Use the information from the Punnett square above to answer the following.
  - a. What percentage of the offspring should be expected to be tall? \_\_\_\_\_ %
  - b. What percentage of the offspring should be expected to be short? \_\_\_\_\_ %