

Punnett's Squares

These show the 2 alleles of each parent plant crossed with each other and the resulting 4 possible offspring with T = tall, t = short.

TT = dominant tall, tt = recessive short, Tt = mixed hybrid

TT = dominant tall (genotype tall, phenotype tall)

Tt = mixed hybrid (genotype hybrid, phenotype tall)

tt = recessive short (genotype short, phenotype short)

Using the Punnett's Squares below, name the offspring of all possible parent combinations.

| | | |
|----------|----------|----------|
| | <i>T</i> | <i>T</i> |
| <i>T</i> | | |
| <i>T</i> | | |

Both parents are dominant tall, name the 4 possible offspring.

1. _____ 2. _____
3. _____ 4. _____

| | | |
|----------|----------|----------|
| | <i>T</i> | <i>t</i> |
| <i>T</i> | | |
| <i>t</i> | | |

Both parents are mixed hybrids, name the 4 possible offspring and the expected ratio.

1. _____ 2. _____
3. _____ 4. _____

| | | |
|----------|----------|----------|
| | <i>T</i> | <i>T</i> |
| <i>T</i> | | |
| <i>t</i> | | |

One parents is dominant tall, one is mixed hybrid, name the 4 possible offspring.

1. _____ 2. _____
3. _____ 4. _____

| | | |
|----------|----------|----------|
| | <i>t</i> | <i>t</i> |
| <i>t</i> | | |
| <i>t</i> | | |

Both parents are recessive short, name the 4 possible offspring.

1. _____ 2. _____
3. _____ 4. _____