

Tall vs Short Plant Height

Phenotype: Plant height

Genotype: T tall - dominant allele
+ short - recessive allele

TT: homozygous / purebred / Tall
T+: heterozygous / hybrid / Tall
++: homozygous / purebred / short

} possible allele combination

Scenario #1 Tall purebred plant crossed with tall hybrid plant

Punnett Square ↙

	T	T
T	TT	TT
+	T+	T+

represents probability of offspring

100% Tall

50% homozygous

50% heterozygous

Scenario #2 Tall hybrid plant crossed with a homozygous short plant.

	T	+
+	T+	++
+	T+	++

Probability

50% Tall: heterozygous (T+)

50% Short: homozygous (++)