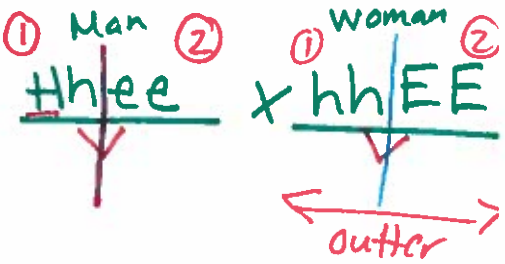
Dihybrid Cross Notes

In man, assume that being Tall is dominant over being short, and that brown eyes are dominant over green eyes. Cross a marriage between a heterozygous (Hh) tall, green eyed (ee) man and a short (hh) brown eyed (EE) woman. Give the genotypic and phenotypic ratios of the offspring.

① Key: Tall: H
Short: h
Brown eyes: E
Green eyes: e

② Parents:
Man: Hhee
woman: hhEE



③ FOIL
First
Outter
Inner
Last

F O I L

	He	He	he	he
E	Tall, Brown Eyes HhEe	Tall Brown eyes HhEe	Short, Brown Eyes hhEe	Short Brown eyes hhEe
E	Tall, Brown Eyes HhEe	Tall, Brown Eyes HhEe	Short, Brown Eyes hhEe	Short Brown Eyes hhEe
E	Tall, Brown Eyes HhEe	Tall, Brown Eyes HhEe	Short Brown Eyes hhEe	Short, brown eyes hhEe
E	Tall Brown Eyes HhEe	Tall Brown Eyes HhEe	Short Brown Eyes hhEe	Short Brown eyes hhEe

④

genotypes:
HhEe: 8:16 1/2 - 50%
hhEe: 8:16 1/2 - 50%

phenotypes:
Tall, Brown eyes: 8:16 - 50%
Short, Brown Eyes: 8:16 - 50%