

DIHYBRID CROSS

P Generation: Round Yellow (RRYY) x wrinkled green (rryy)

RRYY x rryy

Gametes

RY

ry

RY rY Ry ry

F₁ Generation

RrYy

♀ \ ♂	RY	rY	Ry	ry
RY	RRYY Round yellow	RrYY	RRYy	RrYy
rY	RrYY	rrYY	RrYy	rrYy
Ry	RRYy	RrYy	RRyy	Rryy
ry	RrYy	rrYy	Rryy	rryy wrinkled green

Phenotypic Ratio = 9 : 3 : 3 : 1

Genotype Ratio

$1 : 2 : 2 : 4 : 1 : 2 : 1 : 2 : 1$
 $RRYY \quad RrYY \quad RrYY \quad RRyy \quad rryy \quad RrYy \quad RRyy \quad RrYy \quad rryy$

Trihybrid cross

RRYYTT x rryytt RYT x ryt

F₁ generation RrYyTt
↓ selfing

F₂ generation ⇒ 27 : 9 : 9 : 3 : 3 : 3 : 1

Genotype = $3^3 = 27$

