

Ch 4.2 Mendelian GeneticsMonohybrid and **Dihybrid** cross

HELP VIDEO

Q1. List the Gametes of the following parents

Green and wrinkly seed (ggww):	Heterozygous Yellow and round seed (YyWw):
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Q2. Complete the Punnett square and find the phenotype ratio**Heterozygous round and yellow x heterozygous round and yellow****The gametes have been written for you.**

Punnett Square: Dihybrid

	RY	Ry	rY	ry
RY				
Ry				
rY				
ry				

R – Round
 r – wrinkly
 Y – yellow
 y – green

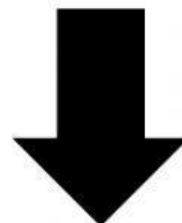
Phenotype

Round & yellow =

Round & green =

Wrinkly & yellow =

Wrinkly & green =

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Q3. Complete the Punnett square for a dihybrid cross between Heterozygous Yellow and Tall parents.

P generation

♂ **YyTt** × ♀ **YyTt**

gametes

F₁ generation

	♂	○	○	○	○
♀	○				
○					
○					
○					

Y : yellow seeds y : green seeds T : tall plant t : short plant

Phenotype of offspring: