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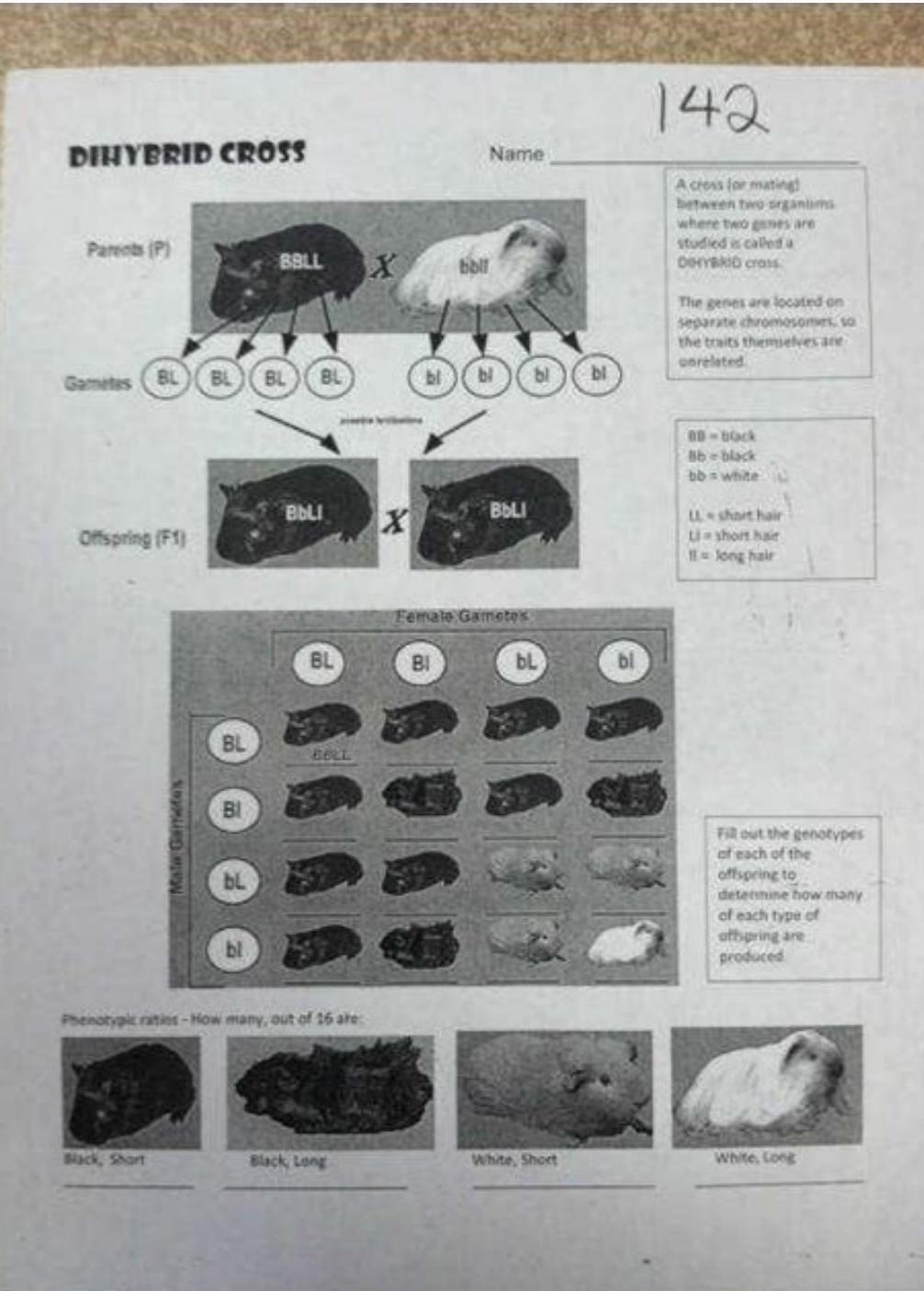


**Open**

# Dihybrid cross worksheet in peas

Page: Student Name: \_\_\_\_\_ Date: \_\_\_\_\_ Period: \_\_\_\_\_  
**Dihybrid Crosses**  
 In a dihybrid cross, two traits are examined at once. If each trait has two alleles, there will be four different combinations of traits in the offspring.  
 Example: If black hair (BB) is dominant over white hair (bb), and long hair (LL) is dominant over short hair (ll), then the following genotypes would be produced:  
 Parents: BB LL X bb ll  
 Gametes: BL BL BL BL  
 bl bl bl bl  
 Offspring: BbLl BbLl  
 blLl blLl  
 1. What are the chances of the offspring being homozygous for both traits? \_\_\_\_\_  
 2. What are the chances of the offspring being homozygous for either trait? \_\_\_\_\_  
 3. What are the chances of the offspring being heterozygous for both traits? \_\_\_\_\_  
 4. What are the chances of the offspring being heterozygous for either trait? \_\_\_\_\_  
 5. What are the chances of the offspring being dominant for both traits? \_\_\_\_\_  
 6. What are the chances of the offspring being dominant for either trait? \_\_\_\_\_

	BB	BL	bl	bb
BB	BB	BB	BB	BB
BL	BB	BB	BB	BL
bl	BB	BL	bl	bl
bb	BL	BL	bl	bb



Name \_\_\_\_\_ Period \_\_\_\_\_

**Worksheet: Dihybrid Crosses**

**UNIT: GENETICS**  
 STEP 1: Identify the level of problem you are trying to solve.  
 STEP 2: Determine letters you will use to specify traits.  
 STEP 3: Determine parent's genotypes.  
 STEP 4: Determine all possible male gametes.  
 STEP 5: Complete cross and determine possible offspring.  
 STEP 6: Count all possible genotypes and phenotype ratios.  
 Two-Factor Crosses (Dihybrid)

Ex) A tall green pea plant (TTGg) is crossed with a short white pea plant (ttgg).

TT or Tt = tall      tt = short      GG or Gg = green      gg = white

tg	Ttgg	Ttgg	Ttgg	Ttgg
tg	ttgg	Ttgg	Ttgg	Ttgg
tg	Ttgg	Ttgg	Ttgg	Ttgg
tg	Ttgg	Ttgg	Ttgg	Ttgg

Phenotypes = 16 Tall/Green : 0 Tall/White : 0 Short/Green : 0 Short/White

1.) A tall green pea plant (Ttgg) is crossed with a tall green pea plant (Ttgg) \_\_\_\_\_ X \_\_\_\_\_

tg	Ttgg	Ttgg	Ttgg	Ttgg
tg	Ttgg	Ttgg	Ttgg	Ttgg
tg	Ttgg	Ttgg	Ttgg	Ttgg
tg	Ttgg	Ttgg	Ttgg	Ttgg

Phenotypes = \_\_\_\_\_ Tall/Green      \_\_\_\_\_ Short/Green      \_\_\_\_\_ Tall/White      \_\_\_\_\_ Short/White

2.) A tall green pea plant (Ttgg) is crossed with a short white pea plant (ttgg) \_\_\_\_\_ X \_\_\_\_\_

tg	Ttgg	Ttgg	Ttgg	Ttgg
tg	Ttgg	Ttgg	Ttgg	Ttgg
tg	Ttgg	Ttgg	Ttgg	Ttgg
tg	Ttgg	Ttgg	Ttgg	Ttgg

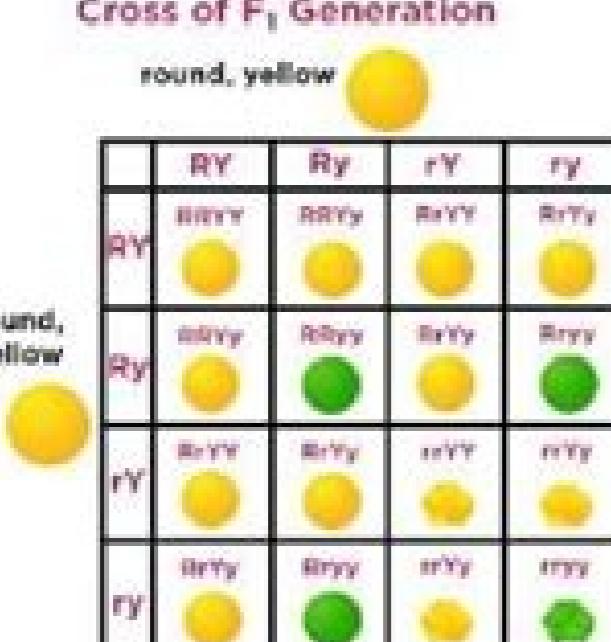
Phenotypes = \_\_\_\_\_ Tall/Green      \_\_\_\_\_ Short/Green      \_\_\_\_\_ Tall/White      \_\_\_\_\_ Short/White



## Dihybrid Cross Practice Problems

Analyze the following dihybrid crosses and answer the questions that follow.

### Cross of F<sub>1</sub> Generation



RY	Ry	rY	ry	
RY	RRYY	RRYy	RRYY	RRyy
Ry	RRYy	Rryy	Rryy	Rryy
rY	Rryy	Rryy	rrYY	rrYy
ry	rrYy	rrYy	rrYy	rryy

- How many out of 16 offspring are yellow and smooth? \_\_\_\_\_  
 How many out of 16 offspring are yellow and wrinkled? \_\_\_\_\_  
 How many out of 16 offspring are green and smooth? \_\_\_\_\_  
 How many out of 16 offspring are green and wrinkled? \_\_\_\_\_

Genotypic Ratio: \_\_\_\_\_ Phenotypic Ratio: \_\_\_\_\_

onos arpos allgimaf alled irbmem ilauQ ?iam emoC 24-II e 2-III elaudividni atalerrroc .A emoC .21 .1 5 4 3 2 1 III 8 7 6 3 notgnitnuH id aittalam = 5 4 2 1 2 1 II I \_\_\_\_\_ ataD \_\_\_\_\_ occolB ergideP oroval id oilgof led emoN ?notgnitnuH id aittalam al onnah itnauQ .acitsc isorbf id irotatrop onare ehc iudividni 2 emoN ?emes led eroloc li rep ehc amrof al rep ait etogizorete ais elorp al ehc Atilibissop el onos ilauQ .2 .)yc edrev emes led eroloc li e )Rt asogur emes led amrof al rep ethanimoD "A )Rt adnotor imes id amrof illesis ni oroval id oilgof SSORC DIRBYAD atad essalC \_\_\_\_\_ enoizrcart alled emoN .7 .01 3 2 1 VI 3 2 1 4 3 III 1 \_\_\_\_\_ pereiroc nu ais 2-VI olognis li ehc ellibissop A .1 yr yr yr yr yr yr setemaG :eraugS tennuP yr yr yr yr yr yr .setemaG yyrR oipmesE .51 \_\_\_\_\_ ?ollaig emes led eroloc li rep eth idnotor imes id amrof al rep etogizomo eresse id Atilibissop el onos ilauQ .9 .itaiocrn onos .emes led eroloc li e imes id amrof al rep etogizorete ings illesip id ethnauq atsiverp elorp al eranimreteD ?dilbroloc eneg li onatropsart II noitareneG id olifig el etut ©AhcreP .7 II 2 1 2 \_\_\_\_\_ ?edrev emes led eroloc li isogur imes id amrof al rep etogizomo eresse id Atilibaborp el onos ilauQ .9 .4. Does this trait is dominant or recessive? Why? IV 1 2 3 4 5 6 7 4 Thank you for your your ?ataroloc Aticec ?ataroloc Aticec al ah elaudividni 7-VI al ©AhcreP 72-I e 1-1 iudividni ilg otuva onnah inimbab itnauQ ?ataroloc Aticec id etroatrop anos noci otacorsc ?up osses elauQ .3 .41 \_\_\_\_\_ ?ias ol emoC ?ataroloc Aticec al "A onahlethem non ottart id opit ehc ,etrem ni otseuq noC ?ollaig emes led eroloc li rep etogizomo eresse elorp alled Atilibaborp el onos ilauQ .4 .etogizorete emes led ollag eroloc etogizorete adnotor amrof "A ehc illesip id atnaiap anos noci otacorsc ?lleroc onos 2-III e 1-III iudividni lg odem ehc n75-III e 2-I \_\_\_\_\_ .01 .8 itemaG :eraugS tennuP X emes led edrev eroloc = y emes led ollag eroloc = Y \_\_\_\_\_ itemaG :stheraP osogur emes = R ?2-II e 1-II onaveva ezzagar ethauQ ?cipitonenf otroppar li "A lauQ .6 1 \_\_\_\_\_ .2 \_\_\_\_\_ .5 ?cipitonenf otroppar li "A lauQ ?ovissecr o ethanimoD ottart nu ad atasuac "A sAAhotgnitnuH id aittalam al ,ethem ni otseuq noC .tAAottaf etevo ol o etevo ol o AAhotgnitnuH id aittalam al rep irotatrop onos ic noN .6 .31 III II 1 \_\_\_\_\_ 11 .ataroloc Aticec alled enoissimart al artsom artsed a eergidep II .8 \_\_\_\_\_ ?edrev emes led eroloc li rep etogizomo alis elorp al ehc Atilibaborp el onos ilauQ .ihcsam dnlbilroloc enolizareneg VI 2 emoN .allgimaf anu ni acitsc isorbf alled enoissimart al artsom artsed a eergidep II .5 \_\_\_\_\_ ?eroloc li rep ehc emes led amrof al rep ait etogizorete ais elorp al ehc Atilibaborp el onos ilauQ

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