

Question #64125, Biology / Biochemistry

- a) F1: phenotype – all offspring are dark brown
 genotype – all offspring are double heterozygous BbCc

F2:

Dihybrid Cross

	BC	Bc	bC	bc
BC	BBCC dark brown	BBCc dark brown	BbCC dark brown	BbCc dark brown
Bc	BBCc dark brown	BBcc albino	BbCc dark brown	BbCC albino
bC	BbCC dark brown	BbCc dark brown	bbCC light brown	Bb Cc light brown
bc	BbCc dark brown	Bbcc albino	bbCc light brown	Bbcc albino

phenotype ratio is 9 : 4 : 1

9 – dark brown phenotype

4 – albino

3 – light brown phenotype

genotype ratio is: 1 : 2 : 2 : 1 : 4 : 1 : 2 : 2 : 1

- b) P: ♀ BbCc × ♂ bbcc

phenotype ratio is 1 : 2 : 1

1 – dark brown

2 – albino

1 – light brown

genotype ratio is: 1 : 1 : 1 : 1

1 – BbCc

1 – Bbcc

1 – bbCc

1 – bbcc

Answer provided by <https://www.AssignmentExpert.com>