

Worksheet: Dihybrid Crosses

UNIT 3 : GENETICS

STEP 1: Determine what kind 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: Make your punnett square and make gametes

STEP 5: Complete cross and determine possible offspring.

STEP 6: Determine genotypic and phenotypic ratios.

Two-Factor Crosses (Di-hybrid)

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	TG	TG	TG
tg	TtGg	TtGg	TtGg	TtGg
tg	TtGg	TtGg	TtGg	TtGg
tg	TtGg	TtGg	TtGg	TtGg
tg	TtGg	TtGg	TtGg	TtGg

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)

TTGg x TtGg

	TG	Tg	tG	tg
TG	TTGG	TTGg	TtGG	TtGg
Tg	TTgG	TTgg	TtgG	Ttgg
tG	TTGG	TTGg	TtGG	TtGg
Tg	TTgG	TTgg	TtgG	Ttgg

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Tall/Green : 4 Tall/White : 0

Short/Green : 0 Short/ White

Genetics Practice Problems Dihybrid Cross Answers

Siddappa N.Byrareddy



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