

Dihybrid Cross – 6pt Extra Credit
Due Monday, Feb 26

Print Name: _____

- 1) As we discussed in class, Mendel followed many more traits than what we usually talk about. Let's explore inheritance patterns for some other crosses. Use the table below to help you. To get full credit for each cross (2pts), provide the following: 1) a completed Punnett Square, then in the space to the right of each square, 2) the *phenotypes* of the parents, 3) the *phenotypic ratio* of possible offspring, and 4) the *genotypic ratio* of possible offspring. Remember that there are rules to how you set up the crosses: write the male genotype above the cross and the female genotype to the left so you don't lose track, possible male gametes go above the columns while female gamete combinations go next to the rows.

Character Name	Dominant Trait	Recessive Trait
Flower Color	Purple (P)	White (p)
Flower Position	Axial (A)	Terminal (a)
Seed Color	Yellow (Y)	Green (y)
Seed Shape	Round (R)	Wrinkled (r)
Pod Shape	Inflated (I)	Constricted (i)
Pod Color	Green (G)	Yellow (g)
Stem Length	Tall (T)	Dwarf (t)

- a) Cross 1: Female (PPAa) x Male (PpAa)
b) Cross 2: Female (yyRr) x Male (YYrr)
c) Cross 3: Female (IiGg) x Male (iigg)

Cross #1				

[illegible]

Cross #3				