

Bio 111 Pre-Lab for Lab #07: Name _____
Aipotou I. TA & Sect. _____

1) Suppose that you had some plants with black flowers in Aipotou.

Suppose further that you know the B allele has a dominant black phenotype and the b allele has a recessive white phenotype.

Which of the following crosses would give a result that would let you determine whether one of these black-flowered plants – let's call it "Plant X" – was homozygous black (BB) or heterozygous (Bb)?

For each, explain how the results would or would not let you tell if Plant X were BB or Bb.

a) Cross Plant X with a randomly-chosen white-flowered plant. Yes No

b) Cross Plant X with a pure-breeding black-flowered plant. Yes No

c) Self-cross Plant X. Yes No

2) Since today's lab has many parts, this question will be worth 4 points. On the back of this sheet, give 6 to 10 short (~1 sentence each) bullet points describing, *in your own words*, what you will be doing in the lab today. There are a wide range of full-credit answers here; we will grade this as a 4-point check off.

