Homework 3 – Punnett Squares  (10 points)

Name ___________________________ Anth 1 MW?  TTh?  Time:___________
       Circle which days       When class meets

Please use this sheet without deleting anything put here by the instructor. (Don’t rewrite it on other paper to hand in.)

• Make Punnett Squares for the following situations and answer the questions.
• Use the alleles as shown, clearly distinguishing upper and lower case letters.
• For help with this assignment:
  o See chapter 3 of the textbook.
  o See course study guide, for links that may help.
  o Or visit my office hour.

1. Both parents are carriers of Tay-Sachs Disease. What is the chance that they will have a child with this disease? Alleles: T, t.

2. One parent has sickle-cell trait, and the other has sickle-cell disease. What is the chance that they will have a child with sickle-cell disease? Alleles: Hb^A, Hb^S.

3. One parent has blood type A, and the other has blood type B. Both are homozygous. What is the chance that they will have a child with blood type O? Alleles: A, B, O.