Instructions:

In the chart below are the letters of DNA found at 3 different positions along chromosome #20, from eight different dogs:

4 solid-color   &   4 white
 boxer dogs   boxer dogs

Analyze these data (below) at each of the 3 positions on chromosome #20 in the following way, and then fill in each empty square in the chart with a letter of DNA that you think you might find at that position in that dog, given that:

 Position #1 is 100% correlated to coat color
 Position #2 is not correlated to coat color
 Position #3 is somewhat correlated to coat color

Note: There is **not** just **one** correct way to fill in this chart. Therefore, if your answers differ from those of another student in your class, that does not mean that one chart is filled in correctly whereas the other is not.

Dog	**Position #1:** 100% correlated to coat color	**Position #2:** Not correlated to coat color	**Position #3:** Somewhat correlated to coat color
i (white)	A	T	G
ii (white)			
iii (white)	A	T	G
iv (white)			
v (solid)	G	G	C
vi (solid)			
vii (solid)	G	G	C
viii (solid)			