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Coloring Groups in Jersey City and Park City. Preliminary report.

For nine weeks this past summer, five minority mathematics majors from Saint Peter's College were engaged full-time in research and advanced coursework. SPC, a Jesuit liberal arts college in Jersey City NJ, was chosen as an NREUP site for the MAA's SUMMA program, funded by the NSF, NSA, and Moody's. Over six weeks, we found new results in the Ramsey theory of finite groups, determining how many colors are necessary to avoid certain structures. The students also participated in the Undergraduate Summer School of the Park City Mathematics Institute / Institute for Advanced Study, a rich three week program with several overlapping populations. In this talk, we will highlight the mathematics that kept us busy and discuss the two programs, especially their complementary nature and how other students & faculty can get involved. (Received September 26, 2006)