*Figure 1*. The distribution of algebra repeaters when compared to students taking algebra for the first time across final grades in algebra

Table 1

*Crosstabulation of Algebra Course Status and AP Math Course Enrollment*

|  |  |  |  |
| --- | --- | --- | --- |
|  | Algebra Course Pattern | |  |
| AP Course in Math | Algebra Repeater | Taking Algebra for the First Time | χ2 |
| No | 246 | 757 | 6.24\* |
| Yes | 125 | 278 |  |
| Note. \*= *p* < .05. |  |  |  |

**Teacher Collective Responsibility**

Low – 1 SD below the Mean

Average – At the Mean

High – 1 SD above the Mean

FemalesMales

*Figure 2.*The three-way interaction between algebra course type, teacher collective responsibility, and gender (left panel = females and right panel = males).

Table 2

*Multiple Regression Results for Final Grade in Algebra*

|  |  |  |  |
| --- | --- | --- | --- |
|  | Final Grade in Algebra | | |
|  | Model 1 | Model 2 | Model 3 |
| Parameter |  |  |  |
| Constant | 2.34(.14)\*\*\* | 2.36(.15)\*\*\* | 2.36(.15)\*\*\* |
| Suburb | .05 (.06) | .05 (.06) | .05 (.06) |
| Town | .09 (.08) | .10 (.08) | .10 (.08) |
| Rural | .15 (.08) | .15 (.08) | .15 (.08) |
| Socio-economic Status | .04 (.02)\* | .04 (.02)\* | .04 (.02)\* |
| Math Test Score | .03 (.00)\*\*\* | .03 (.00)\*\*\* | .03 (.00)\*\*\* |
| American Indian and Alaska Native | -.40 (.22) | -.40 (.22) | -.40 (.22) |
| Asian | .22 (.09)\* | .22 (.09)\* | .22 (.09)\* |
| Black and African American | -.13 (.08) | -.13 (.08) | -.13 (.08) |
| Hispanic (no race specified) | -.35 (.23) | -.36 (.22) | -.35 (.24) |
| Hispanic | -.18 (.08)\* | -.18 (.09)\* | -.18 (.08)\* |
| More than one race | -.17 (.09) | -.17 (.09) | -.17 (.09) |
| Native Hawaiian and Pacific Islander | -.21 (.29) | -.20 (.30) | -.20 (.30) |
| Taking Algebra for the First Time | -.08 (.07) | -.10 (.10) | -.09 (.10) |
| Female | .26 (.04)\*\*\* | .21 (.10)\* | .23 (.10)\* |
| Teacher Collective Responsibility | .02 (.02) | .04 (.06) | .14 (.07)\* |
| Taking Algebra for the First Time X Teacher Collective Responsibility |  | -.04 (.05) | -.17 (.07)\* |
| Taking Algebra for the First Time X Female |  | .06 (.11) | .04 (.11) |
| Female X Teacher Collective Responsibility |  | .04 (.04)\* | -.19 (.09)\* |
| Taking Algebra for the First Time X Female X Teacher Collective Responsibility |  |  | .27 (.10)\*\* |
| *p*<.05 ; \*\**p*<.01 ; \*\*\**p*<.001  *Note.* White, Male, and City are the reference group | | | |