



**Rancho Santiago Community College District
Gain/Loss in Retest Math Scores (same level)
October 2009**

- From Fall 2005 to Spring 2009, 32,656 students at RSCCD colleges were administered math tests; 599 (2%) of those students retested on the same test. The average point difference in their scores was +1.76 points.
- Regardless of the length of time that elapsed between test/retest, over half (56%) of students scored higher the second time and about one-third (35%) scored lower.

Detail data is shown below.

| Rancho Santiago Community College District | | | |
|---|--------------|-------------|-----------------------|
| Average Point Loss/Gain From Score on Math Test Retake (Same Level) (Fall 2005 to Spring 2009) | | | |
| Time Between Math Test1 and Test2 | Count | Mean | Std. Deviation |
| <1 month | 3 | 5.33 | 9.238 |
| 1-4 months | 16 | 1.00 | 4.457 |
| 5-10 months | 99 | 4.51 | 6.451 |
| 11-15 months | 146 | 2.02 | 6.552 |
| 16-20 months | 103 | 1.54 | 5.844 |
| 21-24 months | 71 | 0.83 | 6.157 |
| over 2 years | 161 | 0.40 | 5.872 |
| Total | 599 | 1.76 | 6.281 |

| Rancho Santiago Community College District | | | | | |
|---|---------|------------------------|------------------|----------------------|--------------|
| Test/Retest Math (Same Level) | | | | | |
| Time Between Testing | | Change in Score | | | Total |
| | | scored lower | no change | scored higher | |
| <1 month | Count | 0 | 2 | 1 | 3 |
| | Percent | 0% | 67% | 33% | 1% |
| 1-4 months | Count | 5 | 4 | 7 | 16 |
| | Percent | 31% | 25% | 44% | 3% |
| 5-10 months | Count | 23 | 5 | 71 | 99 |
| | Percent | 23% | 5% | 72% | 17% |
| 11-15 months | Count | 47 | 14 | 85 | 146 |
| | Percent | 32% | 10% | 58% | 24% |
| 16-20 months | Count | 38 | 9 | 56 | 103 |
| | Percent | 37% | 9% | 54% | 17% |
| 21-24 months | Count | 30 | 4 | 37 | 71 |
| | Percent | 42% | 6% | 52% | 12% |
| over 2 years | Count | 67 | 17 | 77 | 161 |
| | Percent | 42% | 11% | 48% | 27% |
| TOTAL | Count | 210 | 55 | 334 | 599 |
| | Percent | 35% | 9% | 56% | |

| Rancho Santiago Community College District | | | | | | | | | |
|---|--|------------|-------------|--------------|--------------|--------------|--------------|------------|------------|
| Change in Math Test Scores from Test/Retest (Fall 2005-Spring 2009) | | | | | | | | | |
| # of Points Changed | Time Between Math Test/Retest (Same Level) | | | | | | | Total | |
| | <1 month | 1-4 months | 5-10 months | 11-15 months | 16-20 months | 21-24 months | over 2 years | count | percent |
| | -19 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| -17 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 2 | 0% |
| -15 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0% |
| -12 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0% |
| -11 | 0 | 0 | 0 | 5 | 1 | 0 | 4 | 10 | 2% |
| -10 | 0 | 0 | 2 | 2 | 1 | 0 | 4 | 9 | 2% |
| -9 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 2 | 0% |
| -8 | 0 | 0 | 0 | 1 | 2 | 2 | 3 | 8 | 1% |
| -7 | 0 | 1 | 0 | 4 | 3 | 3 | 3 | 14 | 2% |
| -6 | 0 | 1 | 1 | 6 | 2 | 2 | 7 | 19 | 3% |
| -5 | 0 | 0 | 1 | 5 | 2 | 4 | 6 | 18 | 3% |
| -4 | 0 | 1 | 2 | 7 | 7 | 4 | 8 | 29 | 5% |
| -3 | 0 | 0 | 6 | 2 | 6 | 4 | 2 | 20 | 3% |
| -2 | 0 | 0 | 4 | 7 | 7 | 5 | 15 | 38 | 6% |
| -1 | 0 | 2 | 7 | 7 | 5 | 5 | 12 | 38 | 6% |
| Total Losses | 0 | 5 | 23 | 47 | 38 | 30 | 67 | 210 | 35% |
| No Change | 2 | 4 | 5 | 14 | 9 | 4 | 17 | 55 | 9% |
| 1 | 0 | 0 | 6 | 7 | 6 | 7 | 16 | 42 | 7% |
| 2 | 0 | 2 | 6 | 10 | 2 | 2 | 9 | 31 | 5% |
| 3 | 0 | 0 | 4 | 7 | 6 | 8 | 6 | 31 | 5% |
| 4 | 0 | 1 | 11 | 10 | 9 | 3 | 13 | 47 | 8% |
| 5 | 0 | 1 | 5 | 8 | 4 | 8 | 12 | 38 | 6% |
| 6 | 0 | 0 | 9 | 10 | 8 | 1 | 3 | 31 | 5% |
| 7 | 0 | 2 | 4 | 2 | 4 | 2 | 2 | 16 | 3% |
| 8 | 0 | 1 | 1 | 8 | 4 | 1 | 3 | 18 | 3% |
| 9 | 0 | 0 | 3 | 7 | 3 | 1 | 5 | 19 | 3% |
| 10 | 0 | 0 | 5 | 6 | 4 | 1 | 1 | 17 | 3% |
| 11 | 0 | 0 | 4 | 1 | 3 | 0 | 1 | 9 | 2% |
| 12 | 0 | 0 | 5 | 2 | 2 | 0 | 1 | 10 | 2% |
| 13 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 4 | 1% |
| 14 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0% |
| 15 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 2 | 0% |
| 16 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 4 | 1% |
| 17 | 0 | 0 | 0 | 3 | 0 | 0 | 1 | 4 | 1% |
| 18 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 2 | 0% |
| 19 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0% |
| 20 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 3 | 1% |
| 21 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0% |
| 22 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0% |
| 23 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0% |
| 24 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0% |
| Total Gains | 1 | 7 | 71 | 85 | 56 | 37 | 77 | 334 | 56% |
| Total Retakes | 3 | 16 | 99 | 146 | 103 | 71 | 161 | 599 | |