

**2006 Report
Minnesota Center**

**Report on the Effectiveness of Mathnasium Learning Center Teaching
on Student Performance
on Standards-based Mathematics Tests**

prepared by

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Standards-based, grade-level pre-tests were delivered to 30 students spread across 6 grade levels at the center as they entered the center’s tutoring program (as students enrolled at the center). These enrollments took place between August, 2005 and November, 2005. The posttests, testing mastery of the same standards-based skills with the same level of difficulty as the pre-test, were administered to the students between August 2005 and late February, 2006. The average treatment period covered 105 days.

Test data was collected, individual student pre and posttest scores were matched by student, and results were analyzed using methods that include calculating the percentage increase or decrease between the pre and posttest. An average percentage increase was also calculated. In all cases, the students performed better on posttests. The complete results are displayed in Table 2. Overall, the students showed an average 24.9% increase in percent correct on the posttest. A summary of the results, by tested grade level, are shown below in Table 1. It should be noted that the results were similar across grade levels (1 through 7).

Table 1. Summary of Results

Test Level	Avg. Improvement	Avg. Treatment Period (Days)	n
1	23%	79	5
2	29%	130	8
3	15%	102	5
4	30%	103	7
5	23%	105	3
7	19%	107	2

While these data are not numerous enough to yield calculations that demonstrate statistically significant results, nor have we taken into account the effect on these scores introduced by concurrent classroom instruction, they do add to and bolster the findings of the earlier statistical reports on the effectiveness of the Mathnasium Learning Center method.

Table 1. Mathnasium data – Fall 2005 – Winter 2006 Minn. tutoring students.

Test Level	Student Grade	Pre-test Date	Percent Correct	Posttest Date	Percent Correct	Change in Percent Correct	Treatment Period (Days)
1	2	8/8/2005	17.5%	12/8/2005	45.0%	27.5%	122
1	2	8/29/2005	52.5%	9/15/2005	70.0%	17.5%	17
1	2	8/23/2005	20.0%	12/20/2005	57.5%	37.5%	119
1	2	1/21/2006	85.0%	2/28/2006	92.5%	7.5%	38
1	3	9/12/2005	22.5%	12/20/2005	47.5%	25.0%	99
2	2	9/18/2005	24.6%	1/12/2006	75.4%	50.9%	116
2	3	10/26/2005	49.1%	1/24/2006	66.7%	17.5%	90
2	3	11/18/2005	45.6%	2/10/2006	75.4%	29.8%	84
2	3	8/29/2005	33.3%	10/18/2005	82.5%	49.1%	50
2	4	8/1/2005	66.7%	9/10/2006	80.7%	14.0%	405
2	4	9/15/2005	43.9%	12/28/2005	71.9%	28.1%	104
2	4	10/3/2005	43.9%	1/9/2006	61.4%	17.5%	98
2	5	9/14/2005	35.1%	12/14/2005	61.4%	26.3%	91
3	4	11/9/2005	26.3%	2/28/2006	35.1%	8.8%	111
3	5	8/23/2005	36.8%	12/6/2005	40.4%	3.5%	105
3	5	9/15/2005	35.1%	12/19/2005	42.1%	7.0%	95
3	5	10/7/2005	33.3%	1/17/2006	73.7%	40.4%	102
3	5	9/14/2005	50.9%	12/19/2005	64.9%	14.0%	96
4	5	8/3/2005	58.5%	12/13/2005	76.8%	18.3%	132
4	5	9/1/2005	26.8%	12/16/2005	61.0%	34.1%	106
4	5	9/12/2005	26.8%	12/8/2005	47.6%	20.7%	87
4	5	11/5/2005	25.6%	3/14/2006	54.9%	29.3%	129
4	5	11/19/2005	11.0%	2/27/2006	46.3%	35.4%	100
4	5	8/29/2005	54.9%	10/26/2005	89.0%	34.1%	58
4	5	11/17/2005	32.9%	3/9/2006	73.2%	40.2%	112
5	6	10/1/2005	31.9%	1/10/2006	69.2%	37.4%	101
5	7	9/15/2005	50.5%	12/20/2005	74.7%	24.2%	96
5	7	9/13/2005	36.3%	1/9/2006	44.0%	7.7%	118
7	8	11/14/2005	35.0%	3/2/2006	45.3%	10.2%	108
7	9	9/8/2005	24.1%	12/23/2005	51.8%	27.7%	106