

Addendum to 2004 Report

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

prepared by

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This addendum to the 2004 report entitled *Report on the Effectiveness of Mathnasium Learning Center Teaching on Middle School Student Performance on Standards-based Mathematics Tests* contains the results of analysis test data collected in addition to the information presented in that report. The test data is a sampling of pre and posttests given to Mathnasium Center students who attended the center during the 2004 Summer period (June – August). Standards-based, grade-level pre-tests were delivered to the students prior to Summer 2004, between January and May, 2004. The posttests, testing the same standards-based skills were administered after the Summer 2004 period, between October and December, 2004.

Test data was collected and 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 results are displayed in Table 1. Overall, the students showed an average 20.7% increase in percent correct on the posttest.

Table 1. Mathnasium data – Summer, 2004 tutoring students.

<u>Grade Level</u>	<u>Group</u>	<u>Pre</u>	<u>PreDate</u>	<u>Post</u>	<u>PostDate</u>	<u>Pct. Chg.</u>
3	x	73.7%	Pre Summer 04	84.2%	End 04	10.5%
3	x	52.6%	Pre Summer 04	70.2%	End 04	17.5%
3	x	50.9%	Pre Summer 04	75.4%	End 04	24.6%
3	x	57.9%	Pre Summer 04	93.0%	End 04	35.1%
3	x	78.0%	Pre Summer 04	97.8%	End 04	19.8%
4	x	59.6%	Pre Summer 04	86.0%	End 04	26.3%
4	x	54.4%	Pre Summer 04	82.5%	End 04	28.1%
4	x	78.9%	Pre Summer 04	89.5%	End 04	10.5%
6	x	66.7%	Pre Summer 04	80.9%	End 04	14.2%
						20.7%

While these data are not numerous enough to yield calculations that demonstrate statistical significant results, they do add to and bolster the findings of the earlier statistical reports on the effectiveness of the Mathnasium Learning Center method. In fact, this new data reflects an increase in student performance between the Mathnasium pre and posttests as compared to results from earlier study, which had a 10% average improvement. Further, the results were similar across grade levels (3rd through 6th).