

Addendum to 2004 Report

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

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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, specifically, testing performed using the same instruments with a group of students who attended a Mathnasium Learning Center in Honolulu, Hawaii, between Fall, 2004 and Spring, 2005.

Standards-based, grade-level pre-tests were delivered to the students before beginning the center's tutoring program (as students enrolled at the center). These enrollments took place between July 10th and October 16th, 2005. The posttests, testing the same standards-based skills, were administered to the students between late March and mid-April, 2005. The average treatment period covered less than 200 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 results are displayed in Table 1. Overall, the students showed an average 19.3% increase in percent correct on the posttest.

While these data are not numerous enough to yield calculations that demonstrate statistical significant results, nor have we taken into account the affect 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. Also, it should be noted that the results were similar across grade levels (2nd through 8th).

Table 1. Mathnasium data – Fall 2004 – Winter 2005 Hawaii tutoring students.

Grade	Group	Pre-test Date	Pct. Corr.	Post-test Date	Pct. Corr.	Pct. Chg.
2	x	1/19/2005	45.0%	3/24/2005	52.5%	7.5%
2	x	8/21/2004	27.5%	3/29/2005	60.0%	32.5%
2	x	9/22/2004	85.0%	3/20/2005	85.0%	0.0%
2	x	9/22/2004	70.0%	3/28/2005	100.0%	30.0%
2	x	9/22/2004	32.5%	3/28/2005	95.0%	62.5%
2	x	9/11/2004	70.0%	2/23/2005	90.0%	20.0%
2	x	7/10/2004	67.5%	3/24/2005	85.0%	17.5%
2	x	9/11/2004	32.5%	3/27/2005	40.0%	7.5%
2	x	8/1/2004	65.0%	3/22/2005	77.5%	12.5%
3	x	10/1/2004	80.0%	3/21/2005	97.5%	17.5%
3	x	6/23/2004	36.8%	3/31/2005	86.0%	49.1%
3	x	6/4/2004	61.4%	3/22/2005	93.0%	31.6%
3	x	10/6/2004	64.9%	3/30/2005	91.2%	26.3%
3	x	8/1/2004	84.2%	3/22/2005	77.2%	-7.0%
3	x	1/1/2005	84.2%	3/21/2005	91.2%	7.0%
4	x	8/1/2004	82.5%	3/21/2005	98.2%	15.8%
4	x	1/1/2005	75.4%	3/26/2005	98.2%	22.8%
4	x	4/4/2004	54.4%	3/30/2005	71.9%	17.5%
4	x	10/23/2004	22.8%	3/23/2005	42.1%	19.3%
4	x	10/30/2004	36.8%	3/23/2005	47.4%	10.5%
4	x	6/16/2004	35.1%	3/24/2005	63.2%	28.1%
4	x	6/15/2004	53.7%	3/21/2005	53.7%	0.0%
5	x	10/22/2004	32.9%	3/24/2005	67.1%	34.1%
5	x	6/20/2004	39.0%	3/28/2005	92.7%	53.7%
7	x	7/29/2004	54.7%	3/21/2005	68.6%	13.9%
7	x	10/16/2004	52.6%	4/20/2005	53.3%	0.7%
7	x	9/22/2004	26.3%	4/16/2005	38.0%	11.7%
7	x	11/9/2004	51.1%	3/24/2005	43.8%	-7.3%
8	x	9/1/2004	55.7%	3/30/2005	62.0%	6.4%
8	x	9/22/2004	0.0%	3/22/2005	75.2%	75.2%
8	x	6/4/2004	56.9%	3/22/2005	77.4%	20.4%
9	x	9/22/2004	73.7%	4/2/2005	82.5%	8.8%