

**Michigan Middle School Mathematics Reform Project (M<sup>3</sup>RP)**

**RESULTS OF TEACHER LEADER SUMMER INSTITUTE  
PRE/POST MATHEMATICS ASSESSMENT  
Summer 2000**

**Background.** Each of the seven M<sup>3</sup>RP regions conducted two-week summer institutes for Teacher Leaders in Summer 2000. A primary objective for the sessions was to increase Teacher Leader mathematical content knowledge. Specific content strands covered in the 2000 Summer Institutes included number sense, algebra, statistics, and geometry. A mathematics content test, developed by Project Directors, was administered at the beginning of the Institute and a different, but comparable, test was administered at the end to all participating Teacher Leaders. Each content strand on both the pre and post test was worth a certain number of points (with different numbers of items in each strand). Participants could take as much time as needed to complete the tests.

**Results.** Across the seven regions, 182 Teacher Leaders took both the pre and post tests. The chart below shows mean scores for each of the strands.

Strand	Number Sense		Geometry*		Statistics		Algebra		Total	
	Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post
Possible Points	12		10		23		8		53	
Mean Score	4.63	7.33	6.34	5.99	4.68	16.28	3.39	6.11	18.95	35.80

\* In several regions, this topic was not fully covered during the Institute

The chart below shows point scores and the number of Teacher Leaders receiving them on the pre and post test. Pre-Test: n = 182. Post-Test: n = 183

Overall Test Scores (Possible Points = 53)		
Point Scores	Number of TLs Receiving These Point Scores	
	Pre	Post
0-5	15	1
6-10	25	1
11-15	36	5
16-20	40	8
21-25	20	20
26-30	16	22
31-35	18	26
36-40	7	30
41-45	5	31
46-50	0	29
51-53	0	10

