

West Cook Mathematics Initiative

Maywood – Melrose Park – Broadview Board of Education Meeting November 8, 2012

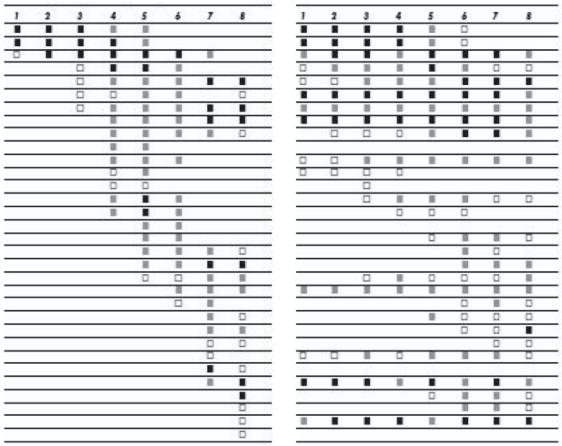






The shape of math in A+ countries





¹ Schmidt, Houang, & Cogan, "A Coherent Curriculum: The Case of Mathematics." (2002).

WCMI

- Overview of WCMI
- Professional Development Opportunities
- Coaching Supports
- Transitioning to the Common Core State Standards for Mathematics
- Proviso Articulation
- Year Four and Beyond



WCMI: What Is It?

 A partnership among 11 west Cook County districts to improve the teaching and learning of mathematics in grades six through nine

 A subset of 3 WCMI districts is participating in Cohort One of the K-5 component. Two additional districts are beginning this work.



WCMI - Participating Districts

| Project | District | District Name | Cluster |
|---------|----------|--------------------------------|---------|
| WCMI | 87 | Berkeley | 209 |
| WCMI | 89 | Maywood-Melrose Park-Broadview | 209 |
| WCMI | 91 | Forest Park | 209 |
| WCMI | 92 | Lindop | 209 |
| WCMI | 93 | Hillside | 209 |
| WCMI | 99 | Cicero | 201 |
| WCMI | 100 | South Berwyn | 201 |
| WCMI | 103 | Lyons | 201 |
| WCMI | 201 | Morton | 201 |
| WCMI | 209 | Proviso | 209 |
| WCMI | 401 | Elmwood Park | 401 |
| | | | |



Theory of Action



District collaboration that leverages expertise and resources

Administrators

Strong, supportive instructional leadership

Teachers and Teacher Leaders

High quality instruction

Students

Improved student achievement



WCMI Project Goals

- Establish a community of school districts and practitioners in west Cook County that works together on mathematics improvement.
- Develop joint solutions to commonly held problems involving the preparation for algebra in the middle grades and the teaching of algebra in 8th and 9th grades.
- Strengthen the districts' capacity to support improved mathematics instruction and retain highly-qualified staff.
- Support a range of mathematics improvement activities as part of a common, comprehensive mathematics initiative among participating districts.
- Improve student outcomes and success in mathematics.
- Build districts' capacity to gain a deeper understanding of the CCSSM, and their capacity to implement the CCSSM in their districts, schools, and classrooms.
- Extend project to support teaching and learning in kindergarten through grade five.

Partners

- West 40 Intermediate Service Center
- Participating west Cook County districts
- University of Illinois at Chicago Learning Sciences Research Institute (LSRI)
- The Chicago Community Trust

Support for SCMI and WCMI is provided by the Searle Funds at The Chicago Community Trust.

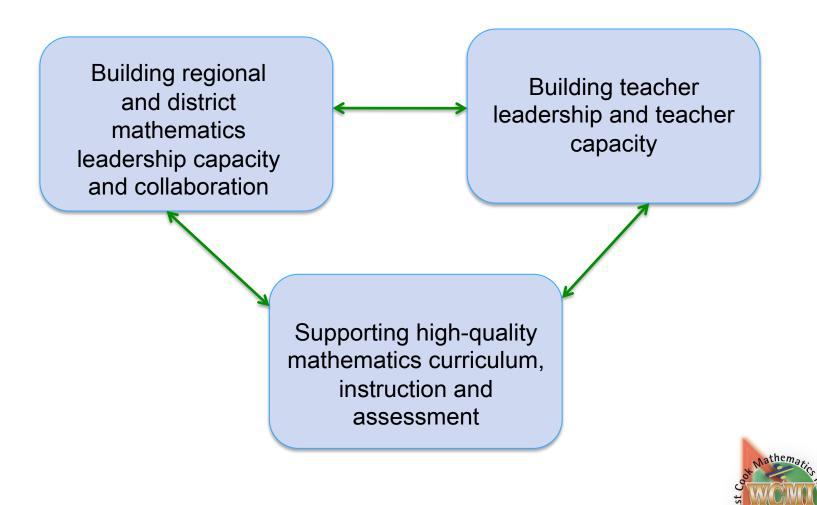


What's Involved

- Comprehensive
 - o Teachers and teacher leaders
 - o Curriculum and instruction
 - o District/school leadership
 - o District/school organization
 - o District/school support for instruction and teachers
 - o Intensification and acceleration
 - o Articulation
 - o Assessment
 - o Other consensus issues identified by districts



Year Three – Sustaining Improvements



Sustaining Leadership and Collaboration

Advisory Board Building regional and district mathematics leadership capacity and collaboration

Administrator Institutes

Administrator

District Lead Networking

Breakfasts

District Leadership Teams DLT InstitutesClusterArticulation



Strengthening teacher leadership and teacher capacity

Teacher Leadership Academy Building teacher leadership and teacher capacity

Coaching

Teacher Professional Development

Peer Visits and Collaboration

University Courses



Supporting high-quality mathematics curriculum, instruction and assessment

Implementation of MARS tasks and lessons

Supporting high quality mathematics curriculum, instruction and assessment

Optional Instructional Units

Cross-District Assessments

Curriculum Review Intensified Algebra



Opportunities for Professional Development and Collaboration

- District Lead
- Administrators District and School Level
- Teacher Leaders
- Teachers of Mathematics



Coaching Supports

Nancy Mueller supports District 89 at many levels:

- Cross District
- District
- School
- Classroom



The Formative Assessment Process **MARS Tasks** Examine **Student Work** Scoring and Student **Works Protocols** 2. Draw shape 4 next to shape 3 in the diagram 5. Tom says, "I need 36 toothpicks to make shape 12." **Commission** Inform Administer Assessment **Teacher Tasks** Knowledge Standards Re-engagement Lessons Inform Instruction Tools for Teach rs and PD Materials

Supporting the Transition to the Common Core – Some Examples

- Students are engaged in MARS tasks and formative assessment lessons.
- Teachers are attending professional development designed to build their capacity.
- Teachers are beginning to implement the Common Core State Standards for Mathematics in their classrooms.
- Teachers will be administering a common assessment aligned to the CCSSM.
- Teachers are in various stages of implementing Connected Mathematics in their classrooms.
- Administrator professional development is focused on instructional supervision and connected to the CCSSM.

Proviso Articulation

Representatives from the WCMI Proviso cluster districts meet regularly to focus on mathematics improvement and the transition from the middle grades to high school.



Year Four and Beyond

 Work will continue and be adapted based upon progress and program evaluation.

Questions?

Thank you for your participation!



The sum of $\frac{1}{12}$ and $\frac{7}{8}$ is closest to

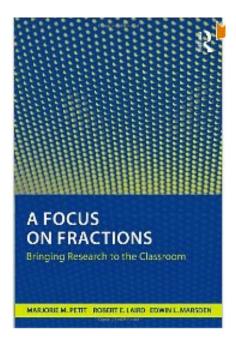
A. 20

B. 8

C. 🖠

D. 1

Explain your answer.



Petit, Laird and Marsden, 2010

