

Extensions Training



**A condensed, grade-level review for grades K–8.
Available in English and Spanish.**



The MOVING WITH MATH Difference **Meeting the Challenge**

- I. Overview of Materials**
- II. Assessment Overview**
- III. “A Typical Day”**
- IV. Research-Based Strategies**
- V. Results**
- VI. Conclusion**

Extensions



- Reviews the essential math objectives for grades K–8
- Students use manipulatives in every lesson to develop conceptual understanding and improve achievement
- Assessment linked to state standards provides data to differentiate instruction for all students

All Materials Conveniently Packaged

Class Kit Includes:

- 1 Teachers Resource Manual
- 20 Student Books
- 1 Test Assessment Pack
- 20 Parent Handbooks



Find the Overview:
Page 3 of the Sampler

Boxed Class Kits in Spanish

Spanish Class Kit Includes:

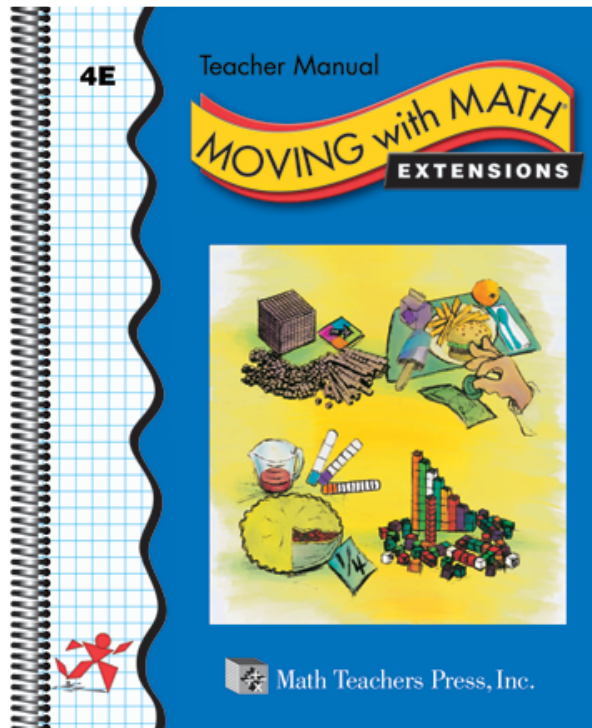
- 1 Teachers Resource Manual
- 1 Spanish Resource Pack
- 20 Spanish Student Books
- 20 Spanish Parent Handbooks



Find the Spanish Kits:
Page 50 of the Sampler

Teacher Resource Manual

Includes a DVD, a foreword, and 3 yellow tabs:

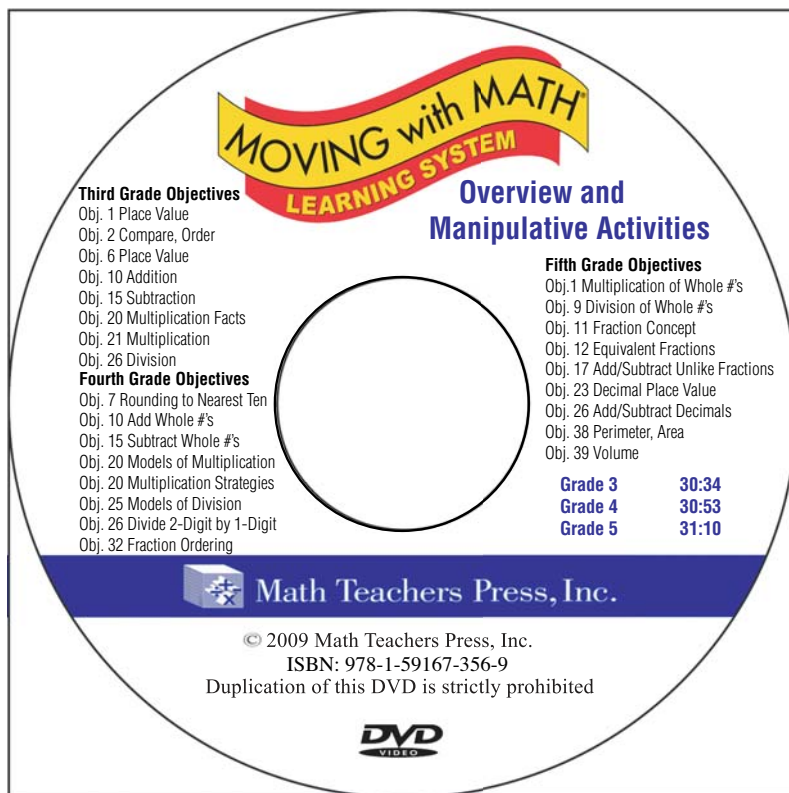


Assessment

Teacher Guide

***Skill Builders
and Masters***

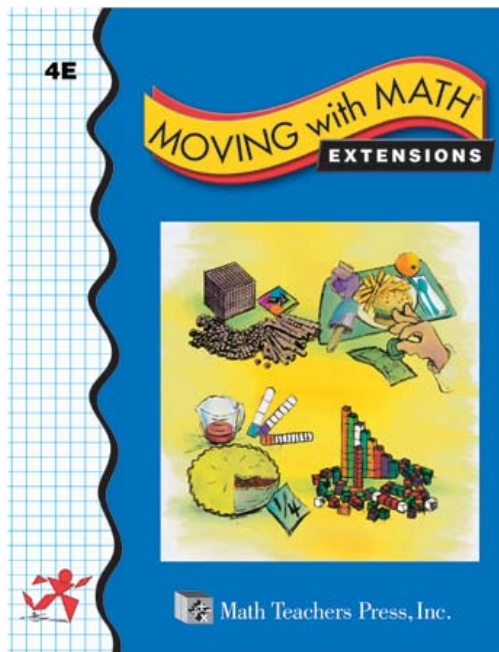
DVD – Overview and Manipulative Activities



■ DVD found in each Teachers Manual

 DVD icon is displayed in Teachers Manual when the hands-on activity is demonstrated on the DVD

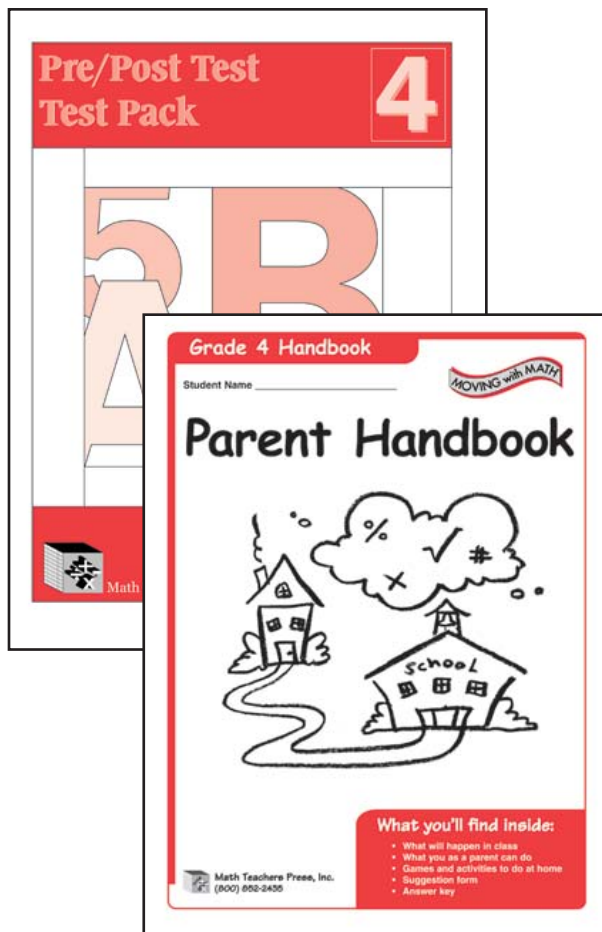
Student Activity Books



- Student Activity Pages
- Daily Reviews
- Daily Review Record Sheet

Available in Spanish

Other Components



Test Assessment Packs:

- 20 Pre- and Post-Tests
- Student and Class Record Sheets

Parent Handbooks (Available in Spanish):

- Family Activities

Manipulatives



Manipulative Kit Includes:

- Unifix Cubes
- Base Ten Blocks
- 5 Place Value Mats
- Fraction Circles
- 5 Ten-Sided Dice
- 8 Six-Sided Dice
- 5 Geoboards



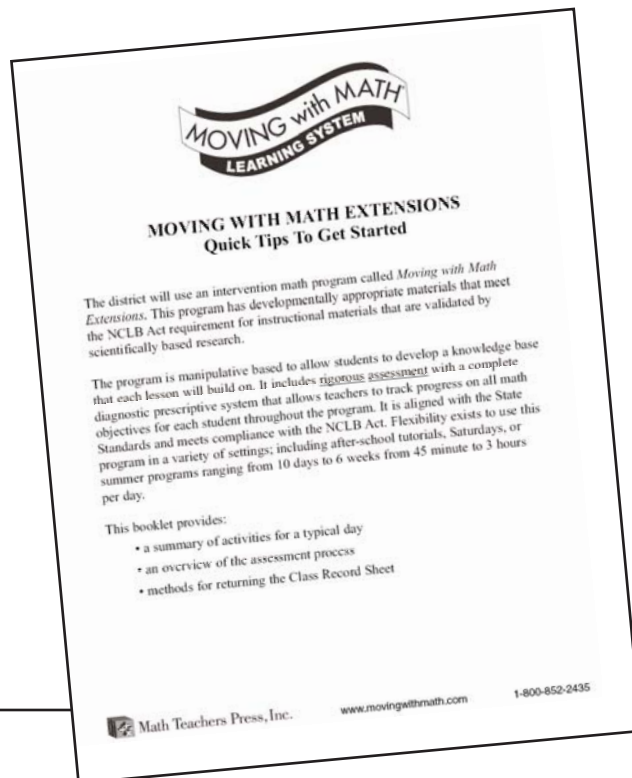
Overhead Manipulative Kit Includes:

- Unifix-Like Squares
- Base Ten Block Pieces
- 45 Coins and 24 Bills
- 63 Fraction Circles
- 5 Clocks
- 1 Geoboard

Quick Tips to Get Started

Quick Tips Include:

1. Summary of Activities for a Typical Day and Location of Materials
2. Overview of the Assessment Process
3. Methods of Measuring and Monitoring Achievement



Moving with Math Summer Extensions "Typical Day"	
Activity	Location of Materials
1. Students begin with a 5 question Daily Review.	Back of Student Book
2. Students record results of Daily Review.	Inside back cover of Student Book
3. (Optional) – If students do poorly with the Daily Review, intervention can occur at this point by using the reteaching pages called Skill Builders . Each problem in the Daily Review is aligned with a math objective that identifies which skill Builder to use.	Skill Builder worksheets are found in the Teacher's Guide for making photocopies.
4. Teacher introduces and directs students through a manipulative based activity;	Complete plan for this is in the Teacher's Guide .
5. Students follow-up the hands-on activity by completing Practice Pages related to the activity.	Student Book
6. Students respond to a Journal Prompt by writing about the math they learned.	Journal Prompts are in Teacher's Guide along with a 3-point scoring guide to evaluate student responses.
7. Students complete a Daily Review set of problems.	Back of Student Book
8. (Optional) – Students can continue with a Skill Builder worksheet.	Found in Teacher's Guide for photocopies.
9. (Optional) – Students can end the day with a math game.	All games are described in Teacher's Guide .
Pacing: The designers of the program have a 20-day pacing calendar in the foreword. The complete plan (activities 1-9) are shown on the calendar and should fit well into a 1-hour or 2-hour session.	
2	

Assessment Overview



Learning Objectives

Learning objectives match state standards and are integrated with assessment and curriculum.



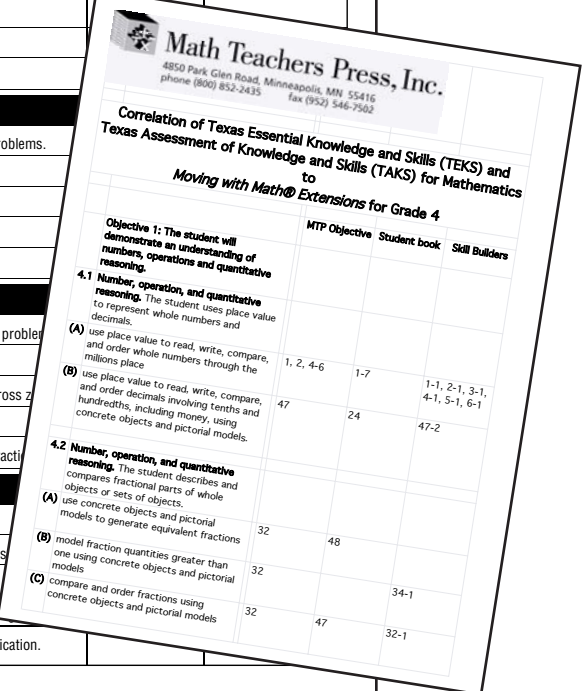
Find the Objectives:
Page 7 of the Sampler
Pages v of the Teacher Manual



TX Correlation to Objectives, Grade 4

Use this table to match pre- or post-test problems to objectives and pages in the teacher manual and student book.

STATE STANDARD	MTP OBJ	Numeration	Student Book	Skill Builders
4.1A	B-1	Identify the place value in a 3-digit number.	1, 2	1-1
4.1A	B-2	Compare and order numbers up to 6 digits.	5, 6	2-1
4.6A	B-3	Complete patterns of multiples of the numbers 1-6 or 10.	8	3-1
4.1A	B-4	Write a 4-, 5- or 6-digit numeral from printed words or sets.	7	4-1
4.1A	B-5	Write the words for any numeral up to 6 digits in length.		5-1
4.1A	B-6	Identify the place value in a 4-, 5-, or 6-digit number.	3, 4	6-1
4.5A	B-7	Round a 2-, 3- or 4-digit number to the nearest ten.		
4.5A	B-8	Round a 3- or 4-digit number to the nearest hundred.		
4.6A	B-9	Find a missing number.		
4.3A	B-10	Add 3-digit numbers with zero or two regroupings. Word problems.		
4.3A	B-11	Add three or four 2-digit numbers with regroupings.		
4.3A	B-12	Add 4- or 5-digit numbers with regroupings.		
4.3A	B-13	Add up to five numbers of differing lengths, 1- to 5-digits.		
4.15B	B-14	Knows the meaning of "sum" and the "+" sign in addition.		
4.3A	B-15	Subtract 3-digit numbers with up to two regroupings, word problem.		
4.3B	B-16	Subtract 3-digit numbers with regroupings across zero.		
4.3A	B-17	Subtract 4- or 5-digit numbers with regroupings, can be across 2		
4.3A	B-18	Subtract numbers of varying lengths, 1- to 5-digits.		
4.15B	B-19	Knows the meaning of "difference" and the "-" sign in subtraction.		
4.4B	B-20	Knows multiplication facts with factors 0-9.		
5.3B	B-21	Multiply a 3-digit number by a 1-digit number, can be across		
4.6B	B-22	Multiply a 1- or 2-digit number by 10 or a multiple of 10.		
4.4D	B-23	Multiply a 2-digit number by a 2-digit number with regroup		
4.15B	B-24	Knows the meaning of "product" and the "x" sign in multiplication.		



Assess Students with Pre-Test on Day 2




Find the Pre-Test:
Page 8 of the Sampler
Page 5 of the Teacher Manual

Pre-Test – Page 1

Name _____

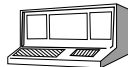
Grade 4 Pre-Test

- Mort is thinking of a number that has a 2 in the hundreds place. Which of these numbers could he be thinking of?


1572
1275
1725
2571

A 1572 **C** 1725
B 1275 **D** 2571
- Which of these numbers is the greatest?


5421
5412
4251
4521


A 5421 **C** 4251
B 5412 **D** 4521
- A number machine follows a rule to output numbers in a pattern. What number comes out next?

 3, 6, 9, _____
- | |
|--|
| three thousand six hundred forty-eight |
|--|

 What is the number written in the box?

- Write 16,147 in words:

- The population of New Town is 157,462. What digit is in the ten thousands place?





Teacher Note: You may help students read words when requested. Do not explain the meaning of the words.

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Results of the Pre-Test are Recorded in Three Locations

[illegible]

Student Strengths and Weaknesses

What this report shows:

The essential math skills listed here are necessary for your child's future math success. This report shows the skills your child already knows (marked with a \checkmark) as well as those your child still needs to learn during this course (marked with an \times). At the end of this class, your child will be tested again on these same skills.

Numeration

- ☐ Identify the place value in a 3-digit number.
- ☐ Compare and order numbers up to 6 digits.
- ☐ Complete patterns of multiples.
- ☐ Write a numeral from printed words.
- ☐ Write the words for a numeral up to 6 digits.
- ☐ Identify the place value in a 6-digit number.
- ☐ Round to the nearest ten.
- ☐ Round to the nearest hundred.
- ☐ Find the missing number in an addition sentence.

Rational Numbers

- ☐ Write the fraction for the shaded part of a whole.
- ☐ Write the fraction for the shaded part of a set.
- ☐ Compare fractions less than $\frac{1}{2}$ to fractions more than $\frac{1}{2}$.
- ☐ Add or subtract 2 proper fractions with like denominators.
- ☐ Add or subtract 2 mixed numbers with like denominators.

Whole Number Operations

- ☐ Add 3-digit numbers with 2 regroupings.
- ☐ Add three or four 2-digit numbers.
- ☐ Add 4 or 5-digit numbers.
- ☐ Add up to 5 numbers of differing lengths.
- ☐ Define the word "sum" and the "+" sign.
- ☐ Subtract 3-digit numbers with 2 regroupings.
- ☐ Subtract 3-digit numbers with regroupings across 0.
- ☐ Subtract 5-digit numbers with regroupings across 0.
- ☐ Subtract numbers of varying lengths.
- ☐ Define the word "difference" and the "-" sign.
- ☐ Know multiplication facts up to 9s.
- ☐ Multiply a 3-digit number by a 1-digit number across zero.
- ☐ Multiply a 2-digit number by a multiple of 10.
- ☐ Multiply a 2-digit number by a 2-digit number with regrouping.
- ☐ Define the word "product" and the "x" sign.
- ☐ Know multiplication facts with divisors to 9.
- ☐ Divide a 2-digit number by a 1-digit number.
- ☐ Divide a 4-digit number by a 1-digit number.
- ☐ Divide a 4-digit number by a 1-digit number, 0's in the quotient.
- ☐ Define the word "quotient" and the "÷" sign.

Geometry & Measurement

- ☐ Identify plane figures such as lines and angles.
- ☐ Identify line position such as horizontal, diagonal and vertical.
- ☐ Identify types of lines such as intersecting, parallel, and perpendicular.
- ☐ Identify a line of symmetry.
- ☐ Identify congruent figures, name polygons.
- ☐ Identify solid figures such as cones, cylinders, spheres and cubes.
- ☐ Tell time to 5 minutes.
- ☐ Read a thermometer, scale and calendar.
- ☐ Measure to the nearest $\frac{1}{2}$ inch or .5 cm.
- ☐ Recall equivalence of customary units of length, weight and capacity.
- ☐ Recall equivalence of metric units of length, weight and capacity.
- ☐ Find the perimeter of a polygon. Find area.
- ☐ Make change for \$10.00.

Problem Solving

- ☐ Solve a word problem with multiplication.
- ☐ Solve a word problem with division.
- ☐ Read and interpret a graph.

Page 3

Student Progress Report

Mark an X in the Pre- and/or Post-Test boxes to indicate missed objectives.

Student _____

Grade 4

Pre-Test
Post-Test

Numeration

<input type="checkbox"/>	<input type="checkbox"/>	B-1	Identify the place value in a 3-digit number.
<input type="checkbox"/>	<input type="checkbox"/>	B-2	Compare and order numbers up to 6 digits.
<input type="checkbox"/>	<input type="checkbox"/>	B-3	Complete patterns of multiples.
<input type="checkbox"/>	<input type="checkbox"/>	B-4	Write a numeral from printed words.
<input type="checkbox"/>	<input type="checkbox"/>	B-5	Write the words for a numeral up to 6 digits.
<input type="checkbox"/>	<input type="checkbox"/>	B-6	Identify the place value in a 6-digit number.
<input type="checkbox"/>	<input type="checkbox"/>	B-7	Round to the nearest ten.
<input type="checkbox"/>	<input type="checkbox"/>	B-8	Round to the nearest hundred.
<input type="checkbox"/>	<input type="checkbox"/>	B-9	Find the missing number in an addition sentence.

Addition

<input type="checkbox"/>	<input type="checkbox"/>	B-10	Add 3-digit numbers with 2 regroupings.
<input type="checkbox"/>	<input type="checkbox"/>	B-11	Add three or four 2-digit numbers.
<input type="checkbox"/>	<input type="checkbox"/>	B-12	Add 4- or 5-digit numbers.
<input type="checkbox"/>	<input type="checkbox"/>	B-13	Add up to 5 numbers of differing lengths.
<input type="checkbox"/>	<input type="checkbox"/>	B-14	Define the word "sum" and the "+" sign.

Subtraction

<input type="checkbox"/>	<input type="checkbox"/>	B-15	Subtract 3-digit numbers with 2 regroupings.
<input type="checkbox"/>	<input type="checkbox"/>	B-16	Subtract 3-digit numbers with regroupings across 0.
<input type="checkbox"/>	<input type="checkbox"/>	B-17	Subtract 5-digit numbers with regroupings across 0.
<input type="checkbox"/>	<input type="checkbox"/>	B-18	Subtract numbers of varying lengths.
<input type="checkbox"/>	<input type="checkbox"/>	B-19	Define the word "difference" and the "-" sign.

Multiplication

<input type="checkbox"/>	<input type="checkbox"/>	B-20	Know multiplication facts up to 9's.
<input type="checkbox"/>	<input type="checkbox"/>	B-21	Multiply a 3-digit number by a 1-digit number across zero.
<input type="checkbox"/>	<input type="checkbox"/>	B-22	Multiply a 2-digit number by a multiple of 10.
<input type="checkbox"/>	<input type="checkbox"/>	B-23	Multiply a 2-digit number by a 2-digit number with regrouping.
<input type="checkbox"/>	<input type="checkbox"/>	B-24	Define the word "product" and the "x" sign.

Division

<input type="checkbox"/>	<input type="checkbox"/>	B-25	Know division facts with divisors 0 to 9.
<input type="checkbox"/>	<input type="checkbox"/>	B-26	Divide a 2-digit by a 1-digit number.
<input type="checkbox"/>	<input type="checkbox"/>	B-27	Divide a 4-digit by a 1-digit number.

Pre-Test
Post-Test

<input type="checkbox"/>	<input type="checkbox"/>	B-28	Divide a 4-digit by a 1-digit number, 0's in the quotient.
<input type="checkbox"/>	<input type="checkbox"/>	B-29	Define the word "quotient" and the ":" sign.

Rational Numbers

<input type="checkbox"/>	<input type="checkbox"/>	B-30	Write the fraction for the shaded part of a whole figure.
<input type="checkbox"/>	<input type="checkbox"/>	B-31	Write the fraction for the shaded part of a set.
<input type="checkbox"/>	<input type="checkbox"/>	B-32	Compare fractions less than $\frac{1}{2}$ to fractions more than $\frac{1}{2}$.
<input type="checkbox"/>	<input type="checkbox"/>	B-33	Add or subtract 2 proper fractions with like denominators.
<input type="checkbox"/>	<input type="checkbox"/>	B-34	Add or subtract 2 mixed numbers with like denominators.

Geometry

<input type="checkbox"/>	<input type="checkbox"/>	B-35	Identify plane figures.
<input type="checkbox"/>	<input type="checkbox"/>	B-36	Identify and draw line position.
<input type="checkbox"/>	<input type="checkbox"/>	B-37	Identify types of lines.
<input type="checkbox"/>	<input type="checkbox"/>	B-38	Identify a line of symmetry.
<input type="checkbox"/>	<input type="checkbox"/>	B-39	Identify congruent figures, name polygons.
<input type="checkbox"/>	<input type="checkbox"/>	B-40	Identify solid figures.

Measurement

<input type="checkbox"/>	<input type="checkbox"/>	B-41	Tell time to 5 minutes.
<input type="checkbox"/>	<input type="checkbox"/>	B-42	Read a thermometer, scale and calendar.
<input type="checkbox"/>	<input type="checkbox"/>	B-43	Measure to the nearest $\frac{1}{2}$ inch or 5 cm.
<input type="checkbox"/>	<input type="checkbox"/>	B-44	Recall equivalence of customary units of length, weight and capacity.
<input type="checkbox"/>	<input type="checkbox"/>	B-45	Recall equivalence of metric units of length, weight and capacity.
<input type="checkbox"/>	<input type="checkbox"/>	B-46	Find the perimeter of a polygon. Find area.
<input type="checkbox"/>	<input type="checkbox"/>	B-47	Make change for \$10.00.

Problem Solving

<input type="checkbox"/>	<input type="checkbox"/>	B-48	Solve a word problem with multiplication.
<input type="checkbox"/>	<input type="checkbox"/>	B-49	Solve a word problem with division.
<input type="checkbox"/>	<input type="checkbox"/>	B-50	Read and interpret a graph.

<input type="checkbox"/>	<input type="checkbox"/>	Total Scores (out of 50 possible)
--------------------------	--------------------------	--

50 50

Teacher Manual Assessment

1

Class Record Sheet

State standards
across the top.

TX Grade 4 Class Record Sheet Teacher: _____ Class: _____

• If answer is correct, leave the space empty. Put an X on missed objectives.
• Record days absent in the last column labeled "Ab."

Student Name	4.1A				4.1B				4.2A				4.2B				4.3A				4.3B				4.4A				4.4B				4.5A				4.5B				4.6A				4.6B				4.7A				4.7B				4.8A				4.8B				4.9A				4.9B				4.10A				4.10B				4.11A				4.11B				4.12A				4.12B				4.13A				4.13B				4.14A				4.14B				4.15A				4.15B				4.16A				4.16B				4.17A				4.17B				4.18A				4.18B				4.19A				4.19B				4.20A				4.20B				4.21A				4.21B				4.22A				4.22B				4.23A				4.23B				4.24A				4.24B				4.25A				4.25B				4.26A				4.26B				4.27A				4.27B				4.28A				4.28B				4.29A				4.29B				4.30A				4.30B				4.31A				4.31B				4.32A				4.32B				4.33A				4.33B				4.34A				4.34B				4.35A				4.35B				4.36A				4.36B				4.37A				4.37B				4.38A				4.38B				4.39A				4.39B				4.40A				4.40B				4.41A				4.41B				4.42A				4.42B				4.43A				4.43B				4.44A				4.44B				4.45A				4.45B				4.46A				4.46B				4.47A				4.47B				4.48A				4.48B				4.49A				4.49B				4.50A				4.50B				4.51A				4.51B				4.52A				4.52B				4.53A				4.53B				4.54A				4.54B				4.55A				4.55B				4.56A				4.56B				4.57A				4.57B				4.58A				4.58B				4.59A				4.59B				4.60A				4.60B				4.61A				4.61B				4.62A				4.62B				4.63A				4.63B				4.64A				4.64B				4.65A				4.65B				4.66A				4.66B				4.67A				4.67B				4.68A				4.68B				4.69A				4.69B				4.70A				4.70B				4.71A				4.71B				4.72A				4.72B				4.73A				4.73B				4.74A				4.74B				4.75A				4.75B				4.76A				4.76B				4.77A				4.77B				4.78A				4.78B				4.79A				4.79B				4.80A				4.80B				4.81A				4.81B				4.82A				4.82B				4.83A				4.83B				4.84A				4.84B				4.85A				4.85B				4.86A				4.86B				4.87A				4.87B				4.88A				4.88B				4.89A				4.89B				4.90A				4.90B				4.91A				4.91B				4.92A				4.92B				4.93A				4.93B				4.94A				4.94B				4.95A				4.95B				4.96A				4.96B				4.97A				4.97B				4.98A				4.98B				4.99A				4.99B				5.00A				5.00B				5.01A				5.01B				5.02A				5.02B				5.03A				5.03B				5.04A				5.04B				5.05A				5.05B				5.06A				5.06B				5.07A				5.07B				5.08A				5.08B				5.09A				5.09B				5.10A				5.10B				5.11A				5.11B				5.12A				5.12B				5.13A				5.13B				5.14A				5.14B				5.15A				5.15B				5.16A				5.16B				5.17A				5.17B				5.18A				5.18B				5.19A				5.19B				5.20A				5.20B				5.21A				5.21B				5.22A				5.22B				5.23A				5.23B				5.24A				5.24B				5.25A				5.25B				5.26A				5.26B				5.27A				5.27B				5.28A				5.28B				5.29A				5.29B				5.30A				5.30B				5.31A				5.31B				5.32A				5.32B				5.33A				5.33B				5.34A				5.34B				5.35A				5.35B				5.36A				5.36B				5.37A				5.37B				5.38A				5.38B				5.39A				5.39B				5.40A				5.40B				5.41A				5.41B				5.42A				5.42B				5.43A				5.43B				5.44A				5.44B				5.45A				5.45B				5.46A				5.46B				5.47A				5.47B				5.48A				5.48B				5.49A				5.49B				5.50A				5.50B				5.51A				5.51B				5.52A				5.52B				5.53A				5.53B				5.54A				5.54B				5.55A				5.55B				5.56A				5.56B				5.57A				5.57B				5.58A				5.58B				5.59A				5.59B				5.60A				5.60B				5.61A				5.61B				5.62A				5.62B				5.63A				5.63B				5.64A				5.64B				5.65A				5.65B				5.66A				5.66B				5.67A				5.67B				5.68A				5.68B				5.69A				5.69B				5.70A				5.70B				5.71A				5.71B				5.72A				5.72B				5.73A				5.73B				5.74A				5.74B				5.75A				5.75B				5.76A				5.76B				5.77A				5.77B				5.78A				5.78B				5.79A				5.79B				5.80A				5.80B				5.81A				5.81B				5.82A				5.82B				5.83A				5.83B				5.84A				5.84B				5.85A				5.85B				5.86A				5.86B				5.87A				5.87B				5.88A				5.88B				5.89A				5.89B				5.90A				5.90B				5.91A				5.91B				5.92A				5.92B				5.93A				5.93B				5.94A				5.94B				5.95A				5.95B				5.96A				5.96B				5.97A				5.97B				5.98A				5.98B				5.99A				5.99B				6.00A				6.00B				6.01A				6.01B				6.02A				6.02B				6.03A				6.03B				6.04A				6.04B				6.05A				6.05B				6.06A				6.06B				6.07A				6.07B				6.08A				6.08B				6.09A				6.09B				6.10A				6.10B				6.11A				6.11B				6.12A				6.12B				6.13A				6.13B				6.14A				6.14B				6.15A				6.15B				6.16A				6.16B				6.17A				6.17B				6.18A				6.18B				6.19A				6.19B				6.20A				6.20B				6.21A				6.21B				6.22A				6.22B				6.23A				6.23B				6.24A				6.24B				6.25A				6.25B				6.26A				6.26B				6.27A				6.27B				6.28A				6.28B				6.29A				6.29B				6.30A				6.30B				6.31A				6.31B				6.32A				6.32B				6.33A				6.33B				6.34A				6.34B				6.35A				6.35B				6.36A				6.36B				6.37A				6.37B				6.38A				6.38B				6.39A				6.39B				6.40A				6.40B				6.41A				6.41B				6.42A				6.42B				6.43A				6.43B				6.44A				6.44B				6.45A				6.45B				6.46A				6.46B				6.47A				6.47B				6.48A				6.48B				6.49A				6.49B				6.50A				6.50B				6.51A				6.51B				6.52A				6.52B				6.53A				6.53B				6.54A				6.54B				6.55A				6.55B				6.56A				6.56B				6.57A				6.57B				6.58A				6.58B				6.59A				6.59B				6.60A				6.60B				6.61A				6.61B				6.62A				6.62B				6.63A				6.63B				6.64A				6.64B				6.65A				6.65B				6.66A				6.66B				6.67A				6.67B				6.68A				6.68B				6.69A				6.69B				6.70A				6.70B				6.71A				6.71B				6.72A				6.72B				6.73A				6.73B				6.74A				6.74B				6.75A				6.75B				6.76A				6.76B				6.77A				6.77B				6.78A				6.78B				6.79A				6.79B				6.80A				6.80B				6.81A				6.81B				6.82A				6.82B				6.83A				6.83B				6.84A				6.84B				6.85A				6.85B				6.86A				6.86B				6.87A				6.87B				6.88A				6.88B				6.89A				6.89B				6.90A				6.90B				6.91A				6.91B				6.92A				6.92B				6.93A				6.93B				6.94A				6.94B				6.95A				6.95B				6.96A				6.96B				6.97A				6.97B				6.98A				6.98B				6.99A				6.99B				7.00A				7.00B				7.01A				7.01B				7.02A				7.02B				7.03A				7.03B				7.04A				7.04B				7.05A				7.05B				7.06A				7.06B				7.07A				7.07B				7.08A				7.08B				7.09A				7.09B				7.10A				7.10B				7.11A				7.11B				7.12A				7.12B				7.13A				7.13B				7.14A				7.14B				7.15A				7.15B				7.16A				7.16B				7.17A				7.17B				7.18A				7.18B				7.19A				7.19B				7.20A				7.20B				7.21A				7.21B				7.22A				7.22B				7.23A				7.23B				7.24A				7.24B				7.25A				7.25B				7.26A				7.26B				7.27A				7.27B				7.28A				7.28B				7.29A				7.29B				7.30A				7.30B				7.31A				7.31B				7.32A				7.32B				7.33A				7.33B				7.34A				7.34B				7.35A				7.35B				7.36A				7.36B				7.37A				7.37B				7.38A				7.38B				7.39A				7.39B				7.40A				7.40B				7.41A				7.41B				7.42A				7.42B				7.43A				7.43B				7.44A				7.44B				7.45A				7.45B				7.46A				7.46B				7.47A				7.47B				7.48A				7.48B				7.49A				7.49B				7.50A				7.50B				7.51A				7.51B				7.52A				7.52B				7.53A				7.53B				7.54A				7.54B				7.55A				7.55B				7.56A				7.56B				7.57A				7.57B				7.58A				7.58B				7.59A				7.59B				7.60A				7.60B				7.61A				7.61B				7.62A				7.62B				7.63A				7.63B				7.64A				7.64B				7.65A				7.65B				7.66A				7.66B				7.67A				7.67B				7.68A				7.68B				7.69A				7.69B				7.70A				7.70B				7.71A				7.71B				7.72A				7.72B				7.73A				7.73B				7.74A				7.74B				7.75A				7.75B				7.76A				7.76B				7.77A				7.77B				7.78A				7.78B				7.79A				7.79B				7.80A				7.80B				7.81A				7.81B				7.82A				7.82B				7.83A				7.83B				7.84A				7.84B				7.85A				7.85B				7.86A				7.86B				7.87A				7.87B				7.88A				7.88B				7.89A				7.89B				7.90A				7.90B				7.91A				7.91B				7.92A				7.92B				7.93A				7.93B				7.94A				7.94B				7.95A				7.95B				7.96A				7.96B				7.97A				7.97B				7.98A				7.98B				7.99A				7.99B				8.00A				8.00B				8.01A				8.01B				8.02A				8.02B				8.03A				8.03B				8.04A				8.04B				8.05A				8.05B				8.06A				8.06B				8.07A				8.07B				8.08A				8.08B				8.09A				8.09B				8.10A				8.10B				8.11A				8.11B				8.12A				8.12B				8.13A				8.13B				8.14A				8.14B				8.15A				8.15B				8.16A				8.16B				8.17A				8.17B				8.18A				8.18B				8.19A				8.19B				8.20A				8.20B				8.21A				8.21B				8.22A				8.22B				8.23A				8.23B				8.24A				8.24B				8.25A				8.25B				8.26A				8.26B				8.27A				8.27B				8.28A				8.28B				8.29A				8.29B				8.30A				8.30B				8.31A				8.31B				8.32A				8.32B				8.33A			
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Class Record Sheet

The **Class Record Sheet** allows the teacher to identify at-risk students, group students for differentiated instruction, and identify content objectives that need extra attention.

Class Record Sheet

Teacher: Ms. Marshall

Class Name: Fourth Grade

- An X means the objective was answered incorrectly
- The "Abs" column signifies number of absences

Tier 2:
Form learning groups by missed objectives.

STATE STANDARDS HERE

State Standard

Student	Test:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	No. correct out of 50	% correct	Abs.
		Numeration										Multiplication					Division					Rational Numbers					Geometry					Measurement					Prob. Solv.																	
Jordan S.	Pre-Post-	X			X			X			X	X	X		X		X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	23 / 50	46%	0			
Christian S.	Pre-Post-				X			X			X	X	X		X		X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	27 / 50	54%	0			
Nicole S.	Pre-Post-			X	X			X	X		X	X	X		X		X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	27 / 50	54%	0				
Megan S.	Pre-Post-			X	X			X			X	X	X		X		X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	19 / 50	38%	0				
Brittany S.	Pre-Post-				X	X	X		X		X	X	X		X		X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	22 / 50	44%	0				
Brandon S.	Pre-Post-		X				X	X			X	X	X		X		X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	19 / 50	38%	0				
Michelle S.	Pre-Post-				X	X		X			X	X	X		X		X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	28 / 50	56%	0				
Ian S.	Pre-Post-	X			X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	50 / 50	32%	0				
Timothy S.	Pre-Post-				X						X	X	X		X		X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	21 / 50	42%	0				
Jake S.	Pre-Post-	X			X	X	X				X				X		X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	21 / 50	42%	0				
Brandon S.	Pre-Post-				X	X		X			X	X	X		X		X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	21 / 50	42%	0				
Courtney S.	Pre-Post-	X						X			X	X	X		X		X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	21 / 50	42%	0			
Logan S.	Pre-Post-	X	X								X				X		X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	21 / 50	42%	0			
Deanna S.	Pre-Post-	X									X				X		X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	21 / 50	42%	0				
Daryn S.	Pre-Post-										X	X	X		X		X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	21 / 50	42%	0				
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Parent Handbook

Student Strengths and Weaknesses

What this report shows:

The essential math skills listed here are necessary for your child's future math success. This report shows the skills your child already knows (marked with a ✓) as well as those your child still needs to learn during this course (marked with an ✕). At the end of this class, your child will be tested again on these same skills.

Numeration

- ☐ Identify the place value in a 3-digit number.
- ☐ Compare and order numbers up to 6 digits.
- ☐ Complete patterns of multiples.
- ☐ Write a numeral from printed words.
- ☐ Write the words for a numeral up to 6 digits.
- ☐ Identify the place value in a 6-digit number.
- ☐ Round to the nearest ten.
- ☐ Round to the nearest hundred.
- ☐ Find the missing number in an addition sentence.

Whole Number Operations

- ☐ Add 3-digit numbers with 2 regroupings.
- ☐ Add three or four 2-digit numbers.
- ☐ Add 4- or 5-digit numbers.
- ☐ Add up to 5 numbers of differing lengths.
- ☐ Define the word "sum" and the "+" sign.
- ☐ Subtract 3-digit numbers with 2 regroupings.
- ☐ Subtract 3-digit numbers with regroupings across 0.
- ☐ Subtract 5-digit numbers with regroupings across 0.
- ☐ Subtract numbers of varying lengths.
- ☐ Define the word "difference" and the "-" sign.
- ☐ Know multiplication facts up to 9.
- ☐ Multiply a 3-digit number by a 1-digit number across zero.
- ☐ Multiply a 2-digit number by a multiple of 10.
- ☐ Multiply a 2-digit number by a 2-digit number with regrouping.
- ☐ Define the word "product" and the "x" sign.
- ☐ Know division facts with divisors 0 to 9.
- ☐ Divide a 2-digit number by a 1-digit number.
- ☐ Divide a 4-digit number by a 1-digit number.
- ☐ Divide a 4-digit number by a 1-digit number, 0 in the quotient.
- ☐ Define the word "quotient" and the "÷" sign.

Rational Numbers

- ☐ Write the fraction for the shaded part of a whole.
- ☐ Write the fraction for the shaded part of a set.
- ☐ Compare fractions less than $\frac{1}{2}$ to fractions more than $\frac{1}{2}$.
- ☐ Add or subtract 2 proper fractions with like denominators.
- ☐ Add or subtract 2 mixed numbers with like denominators.

Geometry & Measurement

- ☐ Identify plane figures such as lines and angles.
- ☐ Identify line position such as horizontal, diagonal and vertical.
- ☐ Identify types of lines such as intersecting, parallel, and perpendicular.
- ☐ Identify a line of symmetry.
- ☐ Identify congruent figures, name polygons.
- ☐ Identify solid figures such as cones, cylinders, spheres and cubes.
- ☐ Tell time to 5 minutes.
- ☐ Read a thermometer, scale and calendar.
- ☐ Measure to the nearest $\frac{1}{2}$ inch or .5 cm.
- ☐ Recall equivalence of customary units of length, weight and capacity.
- ☐ Recall equivalence of metric units of length, weight and capacity.
- ☐ Find the perimeter of a polygon. Find area.
- ☐ Make change for \$10.00.

Problem Solving

- ☐ Solve a word problem with multiplication.
- ☐ Solve a word problem with division.
- ☐ Read and interpret a graph.

Page 3

Share student's strengths and weaknesses with parents.



Student Progress Report

Identify student's individual needs with a **Student Progress Report**.

Find the Record Sheets:
Page 9 of the Sampler
Pages 1-4 of the Teacher Manual


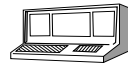
Student Progress Report		Grade 4
Mark an X in the Pre- and/or Post-Test boxes to indicate <u>missed objectives</u> .		
Student _____		
Pre-Test	Post-Test	
Numeration		
<input type="checkbox"/>	<input type="checkbox"/>	B-1 Identify the place value in a 3-digit number.
<input type="checkbox"/>	<input type="checkbox"/>	B-2 Compare and order numbers up to 6 digits.
<input type="checkbox"/>	<input type="checkbox"/>	B-3 Complete patterns of multiples.
<input type="checkbox"/>	<input type="checkbox"/>	B-4 Write a numeral from printed words.
<input type="checkbox"/>	<input type="checkbox"/>	B-5 Write the words for a numeral up to 6 digits.
<input type="checkbox"/>	<input type="checkbox"/>	B-6 Identify the place value in a 6-digit number.
<input type="checkbox"/>	<input type="checkbox"/>	B-7 Round to the nearest ten.
<input type="checkbox"/>	<input type="checkbox"/>	B-8 Round to the nearest hundred.
<input type="checkbox"/>	<input type="checkbox"/>	B-9 Find the missing number in an addition sentence.
Addition		
<input type="checkbox"/>	<input type="checkbox"/>	B-10 Add 3-digit numbers with 2 regroupings.
<input type="checkbox"/>	<input type="checkbox"/>	B-11 Add three or four 2-digit numbers.
<input type="checkbox"/>	<input type="checkbox"/>	B-12 Add 4- or 5-digit numbers.
<input type="checkbox"/>	<input type="checkbox"/>	B-13 Add up to 5 numbers of differing lengths.
<input type="checkbox"/>	<input type="checkbox"/>	B-14 Define the word "sum" and the "+" sign.
Subtraction		
<input type="checkbox"/>	<input type="checkbox"/>	B-15 Subtract 3-digit numbers with 2 regroupings.
<input type="checkbox"/>	<input type="checkbox"/>	B-16 Subtract 3-digit numbers with regroupings across 0.
<input type="checkbox"/>	<input type="checkbox"/>	B-17 Subtract 5-digit numbers with regroupings across 0.
<input type="checkbox"/>	<input type="checkbox"/>	B-18 Subtract numbers of varying lengths.
<input type="checkbox"/>	<input type="checkbox"/>	B-19 Define the word "difference" and the "-" sign.
Multiplication		
<input type="checkbox"/>	<input type="checkbox"/>	B-20 Know multiplication facts up to 9's.
<input type="checkbox"/>	<input type="checkbox"/>	B-21 Multiply a 3-digit number by a 1-digit number across zero.
<input type="checkbox"/>	<input type="checkbox"/>	B-22 Multiply a 2-digit number by a multiple of 10.
<input type="checkbox"/>	<input type="checkbox"/>	B-23 Multiply a 2-digit number by a 2-digit number with regrouping.
<input type="checkbox"/>	<input type="checkbox"/>	B-24 Define the word "product" and the "x" sign.
Division		
<input type="checkbox"/>	<input type="checkbox"/>	B-25 Know division facts with divisors 0 to 9.
<input type="checkbox"/>	<input type="checkbox"/>	B-26 Divide a 2-digit by a 1-digit number.
<input type="checkbox"/>	<input type="checkbox"/>	B-27 Divide a 4-digit by a 1-digit number.
Rational Numbers		
<input type="checkbox"/>	<input type="checkbox"/>	B-28 Divide a 4-digit by a 1-digit number, 0's in the quotient.
<input type="checkbox"/>	<input type="checkbox"/>	B-29 Define the word "quotient" and the "÷" sign.
Geometry		
<input type="checkbox"/>	<input type="checkbox"/>	B-30 Write the fraction for the shaded part of a whole figure.
<input type="checkbox"/>	<input type="checkbox"/>	B-31 Write the fraction for the shaded part of a set.
<input type="checkbox"/>	<input type="checkbox"/>	B-32 Compare fractions less than $\frac{1}{2}$ to fractions more than $\frac{1}{2}$.
<input type="checkbox"/>	<input type="checkbox"/>	B-33 Add or subtract 2 proper fractions with like denominators.
<input type="checkbox"/>	<input type="checkbox"/>	B-34 Add or subtract 2 mixed numbers with like denominators.
Measurement		
<input type="checkbox"/>	<input type="checkbox"/>	B-35 Identify plane figures.
<input type="checkbox"/>	<input type="checkbox"/>	B-36 Identify and draw line position.
<input type="checkbox"/>	<input type="checkbox"/>	B-37 Identify types of lines.
<input type="checkbox"/>	<input type="checkbox"/>	B-38 Identify a line of symmetry.
<input type="checkbox"/>	<input type="checkbox"/>	B-39 Identify congruent figures, name polygons.
<input type="checkbox"/>	<input type="checkbox"/>	B-40 Identify solid figures.
Problem Solving		
<input type="checkbox"/>	<input type="checkbox"/>	B-41 Tell time to 5 minutes.
<input type="checkbox"/>	<input type="checkbox"/>	B-42 Read a thermometer, scale and calendar.
<input type="checkbox"/>	<input type="checkbox"/>	B-43 Measure to the nearest $\frac{1}{2}$ inch or .5 cm.
<input type="checkbox"/>	<input type="checkbox"/>	B-44 Recall equivalence of customary units of length, weight and capacity.
<input type="checkbox"/>	<input type="checkbox"/>	B-45 Recall equivalence of metric units of length, weight and capacity.
<input type="checkbox"/>	<input type="checkbox"/>	B-46 Find the perimeter of a polygon. Find area.
<input type="checkbox"/>	<input type="checkbox"/>	B-47 Make change for \$10.00.
Total Scores (out of 50 possible)		
50	50	
Teacher Manual Assessment 1		

Re-assess Students with Post-Test at the End of the Program (During Last Week)


The results of the Post-Test are recorded on the **Class Record Sheet** and **Student Progress Report**.


Name _____

Grade 4 Post-Test

- Steve is thinking of a number that has a 4 in the hundreds place. Which number below could he be thinking of?

 A 1347 C 1437
 B 3714 D 4137
- Which of these numbers is the greatest?
 A 4349 C 5943
 B 4439 D 5934
- A number machine follows a rule to output numbers in a pattern. What number comes out next?

 6, 10, 14, ____
- Write the numeral for the words in the box.


six thousand three hundred twenty-five
- Write 13,258 in words:

- The area of Alaska is about 650,000 square miles. What is the name of the place value of the 6?

 A hundred thousand
 B one hundred
 C one thousand
 D ten thousand



Teacher Note: You may help students read words when requested. Do not explain the meaning of the words.

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1



Find the Post-Test:

Page 8 of the Sampler

Pages 15 of the Teacher Manual

A Typical Day



Easy Lesson Planning with Pacing Calendars

Research indicates that student achievement goes up when the teacher is perceived to be well-organized.

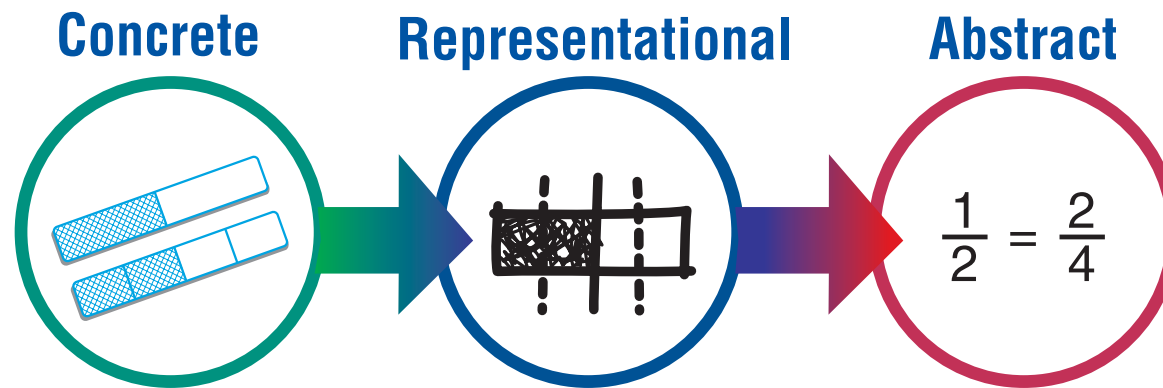
	Lesson 1	Lesson 2
Warm-up	Daily Review #1 (in back of student book)	Test Day
Lesson	Objective: Place value, expanded notation to 4-digits Materials: Base ten blocks, dice, place value mat, index cards, Master 3 Teacher Guide pages: 1-4	Administer the Pre-Test. Record results on Class Record Sheet and Student Progress Report (in Test Assessment Pack). Transfer results to pg. 3 of the Parent Handbook and send home with student.
Math Practice	Student book pages 1-4	Test Day
Journal Prompt/Performance Assessment	Teacher Guide page 2 (see Assessment section for instructions)	Test Day Optional prompt on Teacher Guide page 4
Test Preparation and Homework	Daily Review #2 (in back of student book) Skill Builders 6-1 (in back of this manual)	Test Day
Games	Hammer to 100 Place Value Bingo (on Teacher Guide pages 1, 4)	Test Day

Find the Calendar:

Page 11 of the Sampler

Pages ix of the Teacher Manual

The Three Stages of Learning



Majority of students do not become abstract until between the ages of 12 and 14.

Find the Philosophy:

Page 4 of the Sampler

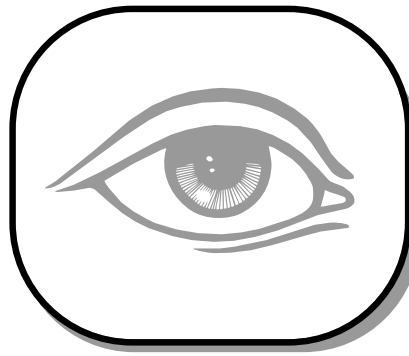
Page i of the Teacher Manual

–Jean Piaget

The Three Learning Styles



Kinesthetic



Visual



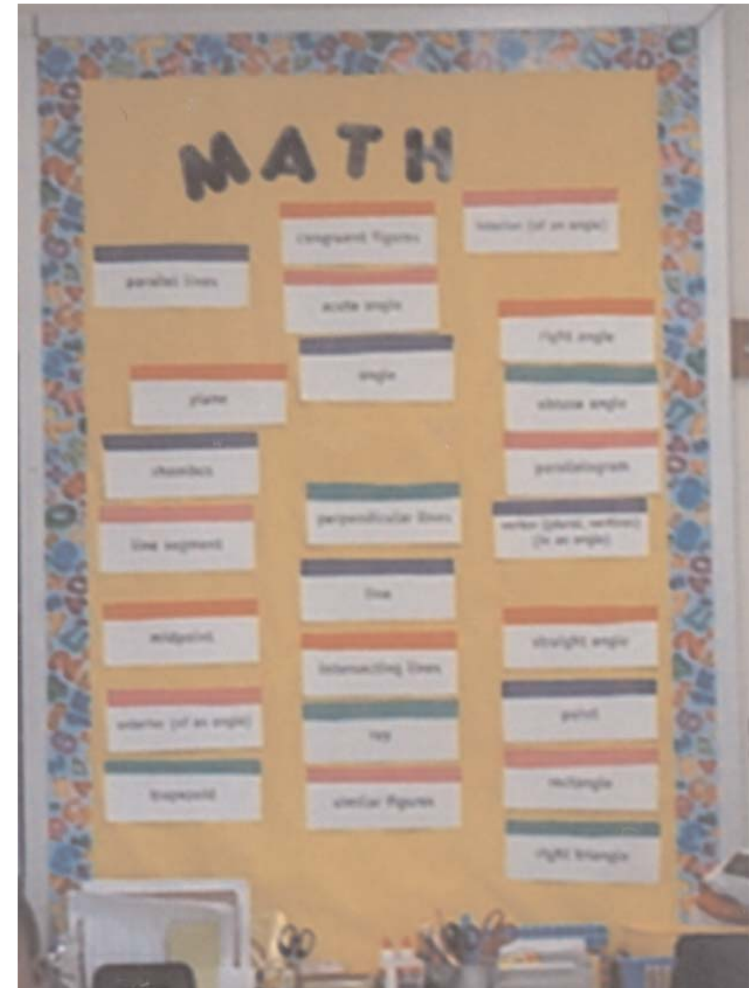
Auditory

**“Children already come to us differentiated.
It just makes sense that we would differentiate
instruction in response to them.”**

–Carol Ann Tomlinson

Teaching Math Vocabulary

- Write each word on a large index card.
- The class reads the word aloud 3 times to become familiar with it.
- At the end of the lesson, students write or draw a picture of the meaning of the word.
- Students write definitions in a glossary.
- Place the card on the classroom Word Wall.
- Vocabulary words are introduced at the beginning of every lesson.



Teaching Math Vocabulary

Students are able to write their own definitions of vocabulary words in their blank math glossary.

Find the Math Glossary:
Page 11 of the Sampler
Masters 18a-18b of the Teacher Manual

Name _____


My Math Glossary
 Write a definition or draw a picture for each word.

acute angle _____	decagon _____
addition _____	decimal fraction _____
angle _____	diameter _____
area _____	difference _____
average _____	division _____
capacity _____	dozen _____
center _____	equivalent fractions _____
circle _____	expanded notation _____
circumference _____	factor _____
closed figure _____	fraction _____
common denominator _____	graph _____
common factor _____	greater than _____
commutative property _____	greatest common factor _____
congruent _____	hexagon _____
data _____	higher terms _____

Master 16a
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Students Begin with a 5 Question Daily Review

- Differentiate instruction on a daily basis
- Correlated to learning objectives
- Continuous monitoring of achievement
- Develop long term retention
- Provides successful math experiences



1. Order these numbers from least to greatest:
1345 1450 1350 1400 1453

2. Write as a numeral: _____
twenty-four thousand
four hundred seventy-six

3. Write 502,400 in words:

4. What digit is in the hundred thousands place in 523,467? _____

5. Round 5648 to the nearest ten: _____

Daily Review 1
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Find the Daily Reviews:
Back of the Student Book

Students Record Results of Daily Review

Name _____

Date _____ Pre-Test _____
Date _____ Post-Test _____

4E

Daily Reviews Record the results from your Daily Reviews here.
The label “Obj.” shows which objective that problem covered.

	Review 1	Review 2	Review 3	Review 4	Review 5	Review 6	Review 7	Review 8
1.	Obj. 2	Obj. 3	Obj. 13	Obj. 13	Obj. 16	Obj. 2	Obj. 21	Obj. 3
2.	Obj. 4	Obj. 8	Obj. 14	Obj. 14	Obj. 17	Obj. 4	Obj. 22	Obj. 8
3.	Obj. 5	Obj. 9	Obj. 16	Obj. 16	Obj. 18	Obj. 5	Obj. 24	Obj. 9
4.	Obj. 6	Obj. 11	Obj. 17	Obj. 17	Obj. 19	Obj. 6	Obj. 25	Obj. 12
5.	Obj. 7	Obj. 12	Obj. 18	Obj. 18	Obj. 20	Obj. 7	Obj. 26	Obj. 26
Correct								

	Review 9	Review 10	Review 11	Review 12	Review 13	Review 14	Review 15	Review 16
1.	Obj. 16	Obj. 13	Obj. 2	Obj. 8	Obj. 20	Obj. 16	Obj. 41	Obj. 23
2.	Obj. 17	Obj. 20	Obj. 3	Obj. 9	Obj. 21	Obj. 17	Obj. 42	Obj. 44
3.	Obj. 18	Obj. 21	Obj. 5	Obj. 25	Obj. 22	Obj. 18	Obj. 43	Obj. 45
4.	Obj. 19	Obj. 22	Obj. 7	Obj. 26	Obj. 25	Obj. 25	Obj. 48	Obj. 46
5.	Obj. 26	Obj. 24	Obj. 13	Obj. 29	Obj. 26	Obj. 26	Obj. 49	Obj. 47
Correct								

	Review 17	Review 18	Review 19	Review 20	Review 21	Review 22	Review 23	Review 24
1.	Obj. 27	Obj. 41	Obj. 30	Obj. 31	Obj. 44	Obj. 23	Obj. 1	Obj. 6
2.	Obj. 28	Obj. 43	Obj. 32	Obj. 32	Obj. 45	Obj. 27	Obj. 2	Obj. 7
3.	Obj. 29	Obj. 47	Obj. 33	Obj. 33	Obj. 46	Obj. 28	Obj. 3	Obj. 8
4.	Obj. 35	Obj. 48	Obj. 34	Obj. 34	Obj. 48	Obj. 35	Obj. 4	Obj. 9
5.	Obj. 36	Obj. 49	Obj. 37	Obj. 37	Obj. 49	Obj. 36	Obj. 5	Obj. 10
Correct								

	Review 25	Review 26	Review 27	Review 28	Review 29	Review 30	Review 31	Review 32
1.	Obj. 11	Obj. 16	Obj. 21	Obj. 26	Obj. 31	Obj. 36	Obj. 41	Obj. 46
2.	Obj. 12	Obj. 17	Obj. 22	Obj. 27	Obj. 32	Obj. 37	Obj. 42	Obj. 47
3.	Obj. 13	Obj. 18	Obj. 23	Obj. 28	Obj. 33	Obj. 38	Obj. 43	Obj. 48
4.	Obj. 14	Obj. 19	Obj. 24	Obj. 29	Obj. 34	Obj. 39	Obj. 44	Obj. 49
5.	Obj. 15	Obj. 20	Obj. 25	Obj. 30	Obj. 35	Obj. 40	Obj. 45	Obj. 50
Correct								

**Find the Daily Reviews:
Back of the Student Book**

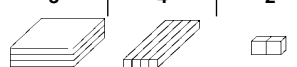
Optional *Skill Builder* Reteaching Pages

If students do poorly with the Daily Review, intervention can occur at this point by using the reteaching pages called *Skill Builders*. Each problem in the Daily Review is aligned with a math objective that identifies which *Skill Builder* to use.


Reproducible.


Name _____

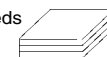
Hundreds	Tens	Ones
3	4	2



The place of a digit shows its value.

The 2 in the ones place has a value of 2 ones  or 2.

The 4 in the tens place has a value of 4 tens  or 40.

The 3 in the hundreds place has a value of 3 hundreds  or 300.

Give the place name and value of the underlined digit.

Place name	Value	Place name	Value
1. 24 <u>7</u>	_____	2. 3 <u>5</u> 6	<u>tens</u> 50
3. 68 <u>3</u>	_____	4. 1 <u>2</u> 3	_____
5. 20 <u>7</u>	_____	6. <u>5</u> 09	_____
7. 1 <u>0</u> 6	_____	8. 3 <u>2</u> 4	_____
9. <u>5</u> 00	_____	10. <u>7</u> 05	_____

Do not get fooled!
Read the place value words carefully.

Write the number for:

11. 4 hundreds, 5 tens, 3 ones	_____	12. 3 hundreds, 6 tens, 5 ones	_____
13. 2 ones, 3 tens, 1 hundred	_____	14. 6 tens, 3 ones, 1 hundred	_____
15. 2 hundreds, 5 ones, 3 tens	_____	16. 5 hundreds, 0 tens, 0 ones	_____
17. 3 hundreds, 2 tens	_____	18. 2 hundreds, 5 ones	_____
19. 6 ones, 4 hundreds	_____	20. 7 hundreds	_____

Skill Builders 1-1
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Find the *Skill Builders*:

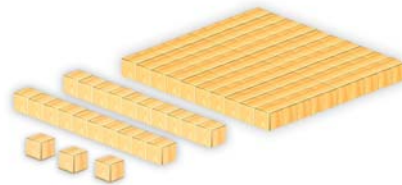
Page 13 of the Sampler

Pages 1-1-50-7 of the Teacher Manual

Teacher Introduces and Directs Students Through a Manipulative Activity

Alike

Different



Find the First Lesson Page:
Page 1 of the Teacher Manual

Objective: To introduce the base ten blocks and 3-digit place value.

Materials: Base ten blocks, Place Value Mat (Masters 1 and 2 taped together), 6-sided dice, My Math Glossary (Master 18), Vocabulary Cards (Master 19)

Vocabulary: place value, ones place, tens place, hundreds place

Note: Before class, make copies of Master 19 (Vocabulary Cards). Make copies of Master 18 (My Math Glossary) and distribute to each student. See p.ii of the foreword.

Introductory Activities

Introducing Base Ten Blocks

The main reason children make errors with whole-number algorithms is that they do not understand multi-digit numeration. They do not know that 43 means 4 tens and 3 ones or $40 + 3$.

Base ten blocks are ideal for teaching numeration concepts because students can see the abstract concept of place value each time they pick up a block. One tens block is always seen both as 1 ten or 10 ones; 1 hundreds block is always seen as 1 hundred or 10 tens or 100 ones; 1 thousands block is always seen as 10 hundreds or 100 tens or 1000 ones.

Carefully introduce the base ten blocks, allowing an appropriate exploratory time. Explain the benefits of manipulatives and ask for individual responsibility as the blocks are distributed.

After students have spent 10–15 minutes exploring with the base ten blocks, ask them to describe their observations about the blocks. Encourage them to find all the ways they are alike and all the ways they are different. (Alike: made of the same material, all the same color, the sides of each block are made up of 1-centimeter squares. Different: different sizes.)

Is there any pattern to the sizes of the blocks? (It takes 10 of 1 small block to equal 1 of the next larger block.) Name the smallest block as “ones” or “units,” the next largest block as “tens” or “units,” and the largest block as “flats” or “hundreds.” Place each block where it belongs on the mat.

About This Page

Direct attention to the top of the page. Have students match blocks to the pictures, place the

3-Digit Place Value

	Hundreds	Tens	Ones
1. 2 hundreds, 4 tens, 8 ones	2	4	8
Write each number:			
1. 2 hundreds, 4 tens, 8 ones	2	4	8
2. 3 hundreds, 6 tens, 4 ones	3	6	4
4. 7 hundreds, 3 tens, 8 ones	7	3	8
5. 6 hundreds, 4 tens, 9 ones	6	4	9
6. 2 hundreds, 9 tens, 5 ones	2	9	5
7. 9 hundreds, 4 tens, 1 one	9	4	1
8. 7 hundreds, 2 tens, 6 ones	7	2	6
9. 5 hundreds, 8 tens, 3 ones	5	8	3
10. 6 hundreds, 1 ten, 7 ones	6	1	7
11. 7 hundreds, 2 tens, 2 ones	7	2	2
12. 4 hundreds, 7 tens, 7 ones	4	7	7

blocks on the Place Value Mat and record the number of each block.

Follow Up Activities



Hammer to 100 Game

Game for 2 players. Use base ten blocks in a pile: one 1 hundred flat, 20 tens and 30 ones. Each player takes turns tossing a 6-sided die and removing the number tossed from the pile. Each time a player gets 10 ones, they are exchanged for 1 ten. The first player to get exactly 10 tens on a toss exchanges it for the 100 flat and is the winner.



Chisel to 0 Game

Game for 2 players. Use base ten blocks in a pile: 20 tens and 30 ones. Each player starts with a hundred flat. A player tosses a 6-sided die and removes the number tossed out of her hundred flat. For example, if a 3 were thrown on the first turn, the player would first have to exchange the hundred flat for 10 tens and then exchange 1 of the tens for 10 ones so that the 3 ones could be removed. The winner is the first player to toss the exact number to get to exactly 0 blocks in her pile.

Teacher Introduces and Directs Students Through a Manipulative Activity



“How are the blocks alike?”
“How are the blocks different?”

Students Follow Up the Hands-On Activity by Completing Practice Pages Related to the Activity

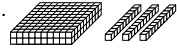
Pictures of manipulatives transition students to the abstract.

3-Digit Place Value


2 hundreds 4 tens 8 ones =

Hundreds	Tens	Ones
2	4	8

Write each number.

1. 

Hundreds	Tens	Ones

2. 

Hundreds	Tens	Ones

3. 5 hundreds =

H	T	O

4. 7 hundreds, 3 tens, 8 ones =

H	T	O

5. 6 hundreds, 4 tens, 9 ones =

H	T	O

6. 2 hundreds, 9 tens, 5 ones =

H	T	O

7. 9 hundreds, 4 tens, 1 one =

H	T	O

8. 7 hundreds, 3 tens, 6 ones =

H	T	O

9. 5 hundreds, 8 tens, 5 ones =

H	T	O

10. 6 hundreds, 1 ten, 7 ones =

H	T	O

11. 7 hundreds, 2 tens, 2 ones =

H	T	O

12. 6 hundreds, 7 tens, 7 ones =

H	T	O

1
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Find the First Student Page:
Page 1 of the Student Book


Students Respond to Journal Prompts by Writing About the Math They Learned



Journal Prompt

Draw a picture of the number 156. Then write the number in expanded notation. Which digit has the least value? How do you know?

Students Complete a Daily Review Set of Problems (Optional – Time Permitting)



1. Order these numbers from least to greatest:
1345 1450 1350 1400 1453

2. Write as a numeral: _____
twenty-four thousand
four hundred seventy-six

3. Write 502,400 in words:

4. What digit is in the hundred thousands place in 523,467? _____

5. Round 5648 to the nearest ten: _____

Daily Review 1
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Find the Daily Reviews:
Back of the Student Book

Students Can Continue with a *Skill Builder* (Optional – Time Permitting)

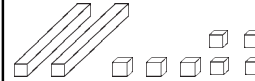
Name _____

Rounding to the Nearest Ten

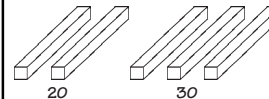
Sometimes you do not need an exact answer.
You need an answer that is close to the exact answer.
Numbers can be rounded off to find an approximate answer.

Ex. Round 27 to the nearest ten.

1. Build the number:



2. Build the two groups of ten between which 27 falls.

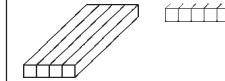


3. Compare 27 to 20 and to 30.
Which is it closer to?

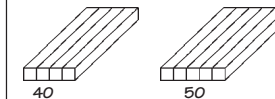
27 "rounds to" 30.

Ex. Round 45 to the nearest ten.

1. Build the number:



2. Build the two groups of ten between which 45 falls.



3. Is 45 closer to 40 or to 50?

45 is a "halfway" number.
"Halfway" numbers are rounded up.
45 "rounds up" to 50.

Circle the group of 10 the given number is closer to. Fill in the blanks.

- | | |
|------------------------|--------------------|
| 1. Is closer to or ? | 32 rounds to _____ |
| 2. Is closer to or ? | 14 rounds to _____ |
| 3. Is closer to or ? | 25 rounds to _____ |
| 4. Is closer to or ? | 39 rounds to _____ |

Round each number to the nearest ten.

- | | | |
|-------------|-------------|--------------|
| 5. 81 _____ | 6. 18 _____ | 7. 54 _____ |
| 8. 68 _____ | 9. 86 _____ | 10. 96 _____ |

Skill Builders 7-1

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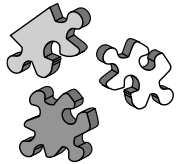
Find the *Skill Builders*:

Page 13 of the Sampler

Pages 1-1-50-7 of the Teacher Manual

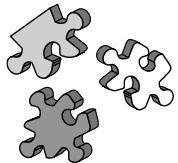
Students Can End the Day with a Math Game (Optional–Time Permitting)

Follow Up Activities



Hammer to 100 Game

Game for 2 players. Use base ten blocks in a pile: one 1 hundred flat, 20 tens and 30 ones. Each player takes turns tossing a 6-sided die and removing the number tossed from the pile. Each time a player gets 10 ones, they are exchanged for 1 ten. The first player to get exactly 10 tens on a toss exchanges it for the 100 flat and is the winner.



Chisel to 0 Game

Game for 2 players. Use base ten blocks in a pile: 20 tens and 30 ones. Each player starts with a hundred flat. A player tosses a 6-sided die and removes the number tossed out of her hundred flat. For example, if a 3 were thrown on the first turn, the player would first have to exchange the hundred flat for 10 tens and then exchange 1 of the tens for 10 ones so that the 3 ones could be removed. The winner is the first player to toss the exact number to get to exactly 0 blocks in her pile.



What Works Clearinghouse Recommendations for RTI

- 1. Screen All Students to Identify those at Risk**
 - *Moving with Math* integrates Pre- and Post-Test screening.
- 2. In-Depth Instruction of Whole Numbers through Grade 5 and Rational Numbers in Grades 4 through 8**
 - Hands-on, conceptually based lessons
- 3. Explicit and Systematic Instruction**
 - Easy-to-use, scripted lesson plans
- 4. Instruction on Solving Word Problems**
 - Explicit instruction on steps and strategies for solving word problems in lesson plans

Find the Recommendations:
Back Cover of the Sampler

5. Physical and Visual Representations of Mathematical Ideas

- Lessons are introduced with a manipulative activity and followed with a picture on student pages

6. Building Fluent Retrieval of Basic Facts

- Strategies and practice for learning basic facts
- Daily Reviews for long term retention

7. Progress Monitoring

- Daily Reviews and Journal Prompts provide ongoing assessment to differentiate instruction and monitor progress

8. Motivational Strategies

- Lesson Plans are guided to provide successful, engaging, and educational experiences

Find the Recommendations:
Back Cover of the Sampler

Meeting the Needs of Tier 2 and Tier 3 Students

- Conceptual-based, hands-on lessons incorporate the **three stages of learning** and address the **three learning styles** (kinesthetic, auditory, and visual).
- **Scaffolding** instruction in a logical structure guides and helps students understand a new topic.
- **Front Loading** instruction fills learning gaps and avoids back pedaling.
- Playing games provides more practice time.
- Using manipulatives longer will benefit struggling learners.
- Successful experiences improve self-concept and raise achievement.

Meeting the Needs of Tier 2 and Tier 3 Students

- Individual recognition of students by name and goal setting improves achievement.
- Student Progress Reports may be used as an IEP to target specific objectives.
- Daily Reviews and Reteaching Pages develop concepts to a mastery level for long-term retention.
- Learning groups of students missing objectives may be formed.

Benefits of Manipulatives

- Developmentally appropriate - reach all students regardless of their developmental background
- Builds conceptual understanding
- Improves problem solving skills
- Games foster language acquisition
- Improves test scores
- Research-based and proven results
- Reach students in all tiers -
Special Education, ELL



“Students who had studied with manipulatives scored significantly higher on achievement tests.”

Mark Driscoll,
Research within Reach

Research-Based Strategies for Special Education and ELL

- Include assessment tools to correctly place all learners
- Use manipulatives, pictures, and charts
- Practice scaffolding and front loading
- Use a consistent five-step problem solving plan
- Develop a math glossary
- Integrate oral and written communication between teacher and students
- Encourage peer communication in small groups playing games
- Make up and solve problems related to the real world



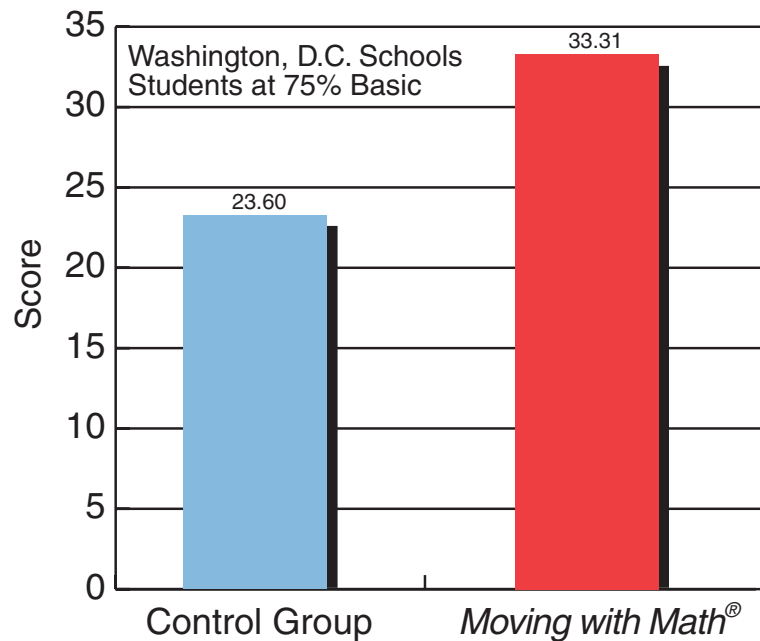
Teacher Support

- **Pacing Calendars** organize instruction plans for every lesson and test in the program. Reduces teacher planning time.
- **Tips to Getting Started** provides an overview of the Extensions program and helps teachers prepare instruction and assessment.
- Lightly scripted lessons provide **explicit instruction** for teachers to address the needs of different learning styles.
- **Supports teachers** at all levels of **math proficiency**.
- **Well-organized system** of instruction where everything is tied to objectives and state standards.



Independent Research Proves Student Gains

**Average Increase in Scores
Fall to Spring SAT-9 Results**



*Source: George Washington University Center for Equity and Excellence in Education.

GWU Study Results

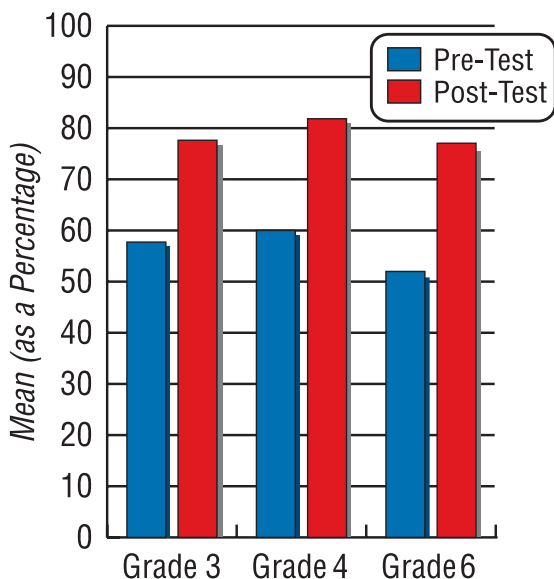
An independent study done by George Washington University found that over 11,000 students in Washington D.C. made statistically significant achievement gains on the SAT-9 compared to a control group in only 30 lessons.

Basic and **Below Basic** students made the greatest gains!

Midland ISD, TX

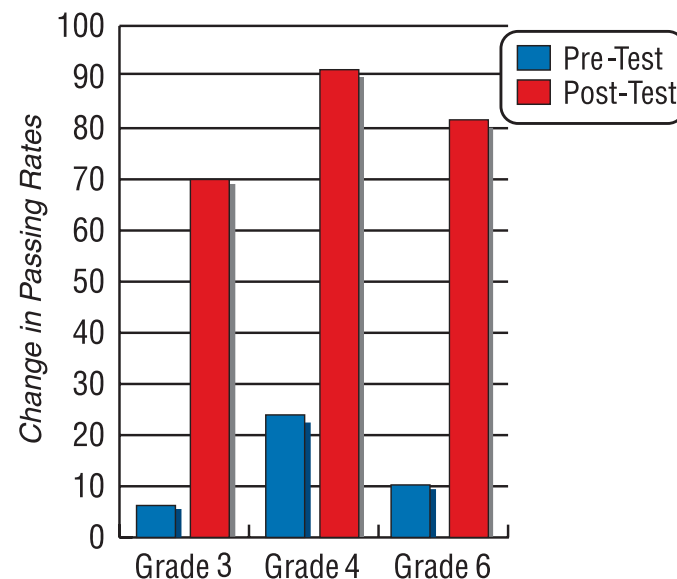
Midland has successfully used Extensions for over six years in summer school. They use it in grades 3, 4, and 6 and always have good results.

**Change in Mean Scores
Pre-Test to Post-Test**



The percent of increase in mean scores ranged from 33% in grade 3 to 45% in grade 6. The average gain for all students was 39%.

**Change in Passing Rates
in Grades 3, 4 and 6**



The overall percent of increase in passing students increased by 523%. The percent of increase ranged from 279% in grade 4 to 1067% in grade 3.

“What you have been obliged to discover by yourself leaves a path in your mind which you can use again when the need arises.”

G.C. Lichtenberg

