

Lakeshore®

2012

# Response to Intervention (RTI) MATHEMATICS



phone (800) 778-4456 fax (800) 537-5403 online [LakeshoreLearning.com](http://LakeshoreLearning.com)

# Improve student achievement... with materials that integrate the principles of RTI into any math program.

## *Teachers & Administrators,*

*At Lakeshore, we understand the importance of meeting the needs of all learners. That's why we offer a variety of resources that support a tiered approach to learning...and provide teachers with the tools they need for ongoing progress monitoring. On the following pages, you'll find RTI materials that:*

- Allow for increasingly intense instruction based on individual needs*
- Provide opportunities to conduct frequent, informal assessments*
- Help teachers document student progress and maintain permanent records to fulfill accountability requirements*
- Support scientific, research-based educational models*
- Emphasize district-wide goals of local education agencies*

*Lakeshore has been providing targeted, supplemental materials to the nation's schools for 58 years. To this day, we remain committed to the success of every student, every teacher and every school.*

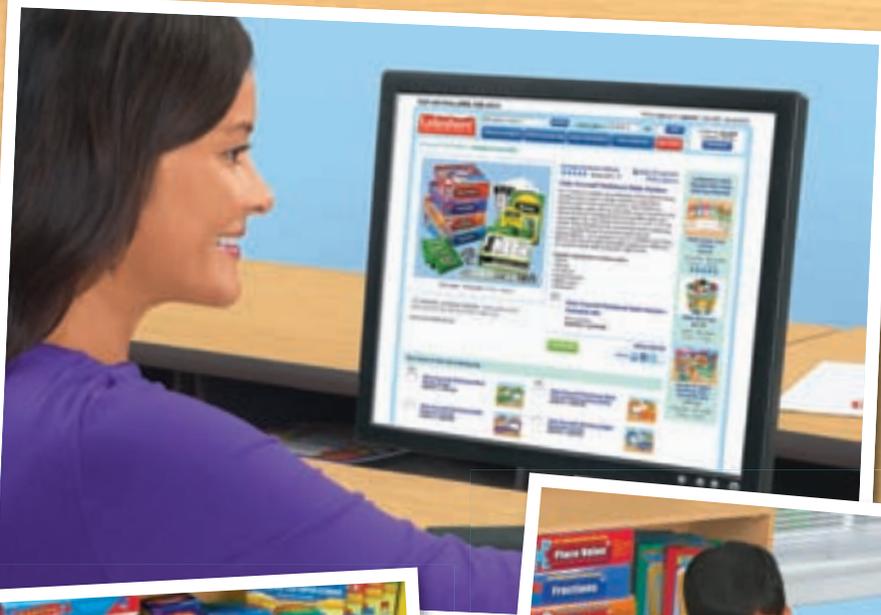


**Patti Rommel**

*Director of Research & Development  
Lakeshore Learning Materials*



For even more materials that correspond to the tiers of RTI, visit [LakeshoreLearning.com](http://LakeshoreLearning.com) and search keywords **RTI Math**.



## Table of Contents

### Essential Math Skills

Math Intervention Teaching Centers .....	4-5
Help-Yourself Multilevel Math Centers .....	6-7
Math in Minutes! Skill-Building Centers.....	8-9
Elementary Math Instant Learning Centers .....	10-11
Read About Math Learning Centers .....	12-13
Math Activity Stations .....	14-15

### Operations

Hands-On Regrouping Kits .....	16-17
--------------------------------	-------

### Place Value

Multilevel Place Value Games .....	18-19
------------------------------------	-------

### Fractions, Decimals & Percents

Building Fractions, Decimals & Percents	
Magnetic Board .....	20-21
Building Fractions Activity Center.....	22-23

### Measurement

Hands-On Measurement Centers .....	24-25
------------------------------------	-------

### Problem Solving

Math in a Flash! Discovery Cans .....	26-27
Highlight the Clues Problem Solving Flip Charts ...	28-29

# Essential Math Skills

## Math Intervention Teaching Centers

Two exclusive centers are designed to help struggling students master essential math skills—hands on!

Designed for small intervention groups of up to 4 students, each center includes 3 different lesson books that focus on 3 level-appropriate concepts...plus 3 pouches of manipulatives that bring each concept to life. Simply grab a book and the corresponding pouch...then follow the step-by-step lesson plans to provide involving, hands-on practice with everything from skip-counting and identifying shapes to expanded notation & equivalent fractions! Each center also includes a guide with a reproducible assessment, student tracking sheet, answer key & more!

### Each Center Includes

- 3 different flip books, each with 10 scripted intervention lessons
- 3 different sets of manipulatives for up to 4 students
- Guide with informal assessments, answer key, student tracking sheet & reproducibles
- 3 vinyl storage pouches

#### Grade Level 1 2

FF145 Grades 1-2 \$49.95

Covers operations, geometry and time & measurement.

⚠ **WARNING: CHOKING HAZARD** — Item is or contains a small ball. Not for children under 3 yrs.

#### Grade Level 3 4

FF148 Grades 3-4 \$49.95

Focuses on place value, operations and fractions.



### Implementation Idea

Working one-on-one, provide explicit instruction and support using the scripted lessons and manipulatives. This allows the student to have an in-depth opportunity to master essential skills—while simultaneously allowing you to record key math behaviors in the reproducible student-tracking sheet.



## Key Features

Shown below: Grades 1-2

Enough materials so **up to 4 students** can work at a time!

**Hands-on manipulatives** help to deepen student understanding at both a concrete and a conceptual level.

A **reproducible assessment** identifies students who may need additional attention and provides documentation for progress monitoring.

Each flip book's set of 10 lessons provides **step-by-step instructions** for the teacher to model skills and concepts.

A **reproducible tracking sheet** makes informal tracking of student progress fast and simple.

An assortment of **simple reproducibles** provides multiple opportunities to reinforce new skills.

## Response to Intervention (RTI) Application

**Tier 2** With a group of up to 4 students, teachers can follow the scripted lesson plans to target important math concepts. As the lesson is being taught, teachers can also record observations on student behavior and performance. At the lesson's conclusion, the reproducible assessment can be used to help determine the next appropriate step for each student.

**Tier 3** Working one-on-one with a student, teachers can use a scripted lesson to target any specific areas of concern. Using the manipulatives and reproducibles, the teacher can scaffold instruction as best meets the needs of the individual student.

# Essential Math Skills

## Help-Yourself Multilevel Math Centers

Our centers give students the practice they need to grasp essential math skills—at just the right level.

Each center features a reproducible guide with 24 different activities, plus 6 pouches with all the hands-on manipulatives needed to complete each one. Best of all, the activities gradually progress in difficulty, so it's easy to meet the readiness of individual students...and help them progress at just the right pace. Plus, each center comes complete with a guide that includes informal assessment ideas.

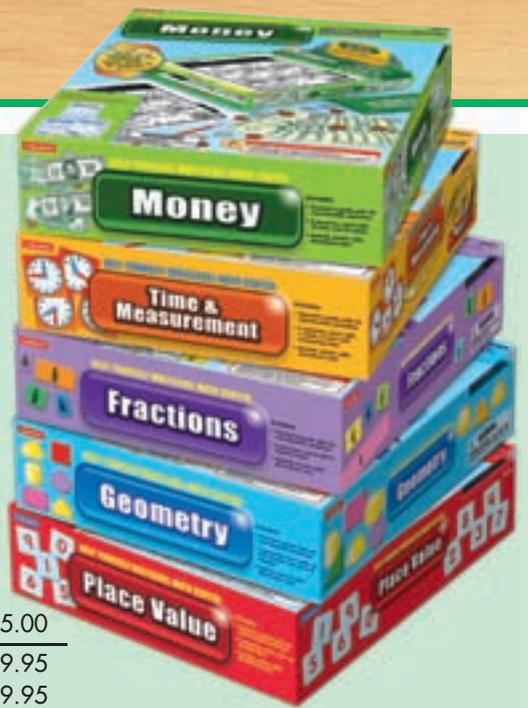
### Each Center Includes

- 24 reproducible activities divided into 3 skill levels
- 6 sets of hands-on manipulatives
- 11½" x 13¼" display center
- Teacher's guide with informal assessment ideas

Grade Level **2 3 4**

HH370X	Complete Set	\$195.00
HH373	Money	\$39.95
HH374	Time & Measurement	\$39.95
HH371	Fractions	\$39.95
HH372	Geometry	\$39.95
HH375	Place Value	\$39.95

⚠ **WARNING: CHOKING HAZARD** — Item is or contains a small ball. Not for children under 3 yrs.



### Implementation Idea

Work with struggling students in a small-group setting to complete a targeted activity, guiding children through the lesson while building conceptual understanding.



## Key Features

Shown below: Geometry Math Center

Each center has enough materials for up to 6 students at once—perfect for small-group intervention lessons.

24 different activities provide plenty of reinforcement with each skill.

The activities gradually progress in difficulty, so it's easy to assess and track students' progress.

Involving hands-on materials give students a concrete understanding of essential skills.

Activities can be used as informal assessments to gauge students' understanding of each concept.

## Response to Intervention (RTI) Application

**Tier 2** Each center has enough materials for an intervention group of up to 6 students. Teachers can select a level-appropriate activity, using the manipulatives to demonstrate how to work out the problem. Then the teacher selects a new activity, inviting students to use their own set of manipulatives to complete it on their own. As students work, the teacher provides additional instruction.

**Tier 3** The activities come in 3 levels, allowing teachers to provide one-on-one instruction at just the right level. The teacher and student work together to solve several problems, and then the teacher administers an informal assessment by having students complete an activity they haven't yet tried. When the student successfully completes an activity, the teacher and student move on to the next level.

# Essential Math Skills

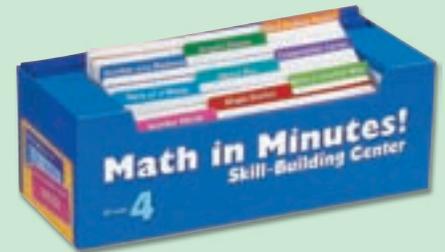
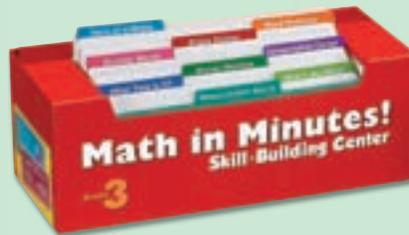
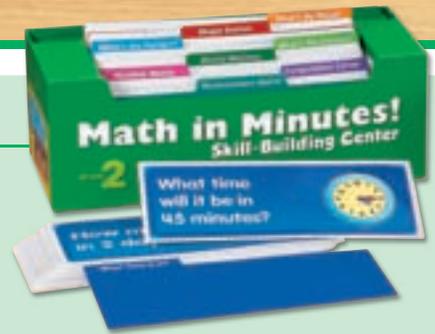
## Math in Minutes! Skill-Building Centers

Students master math concepts—  
with standards-based problems  
they can complete in minutes!

Each grade-appropriate set includes a pocket chart that lets you display 9 math problems at once, plus 270 problem cards that cover 9 different skill areas. Simply place a problem card from each area into the chart to provide daily practice with essential math skills! The cards even have answers on back—for instant reinforcement. Includes a guide with a reproducible version of the chart for students to record their work, providing an informal assessment tool and a permanent record of students' work.

### Each Center Includes

- 33¼" x 43" pocket chart
- 270 problem cards covering 9 skill areas
- Teacher's guide



#### Grade Level **2** **3** **4**

HH146	Grade 2	\$99.50
HH147	Grade 3	\$99.50
HH148	Grade 4	\$99.50

### Implementation Idea

Use the center with a small group of students who are struggling with math problems in any of 9 skill areas. Provide hands-on manipulatives to help students work through each problem shown on the cards.

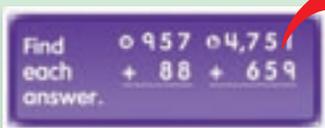
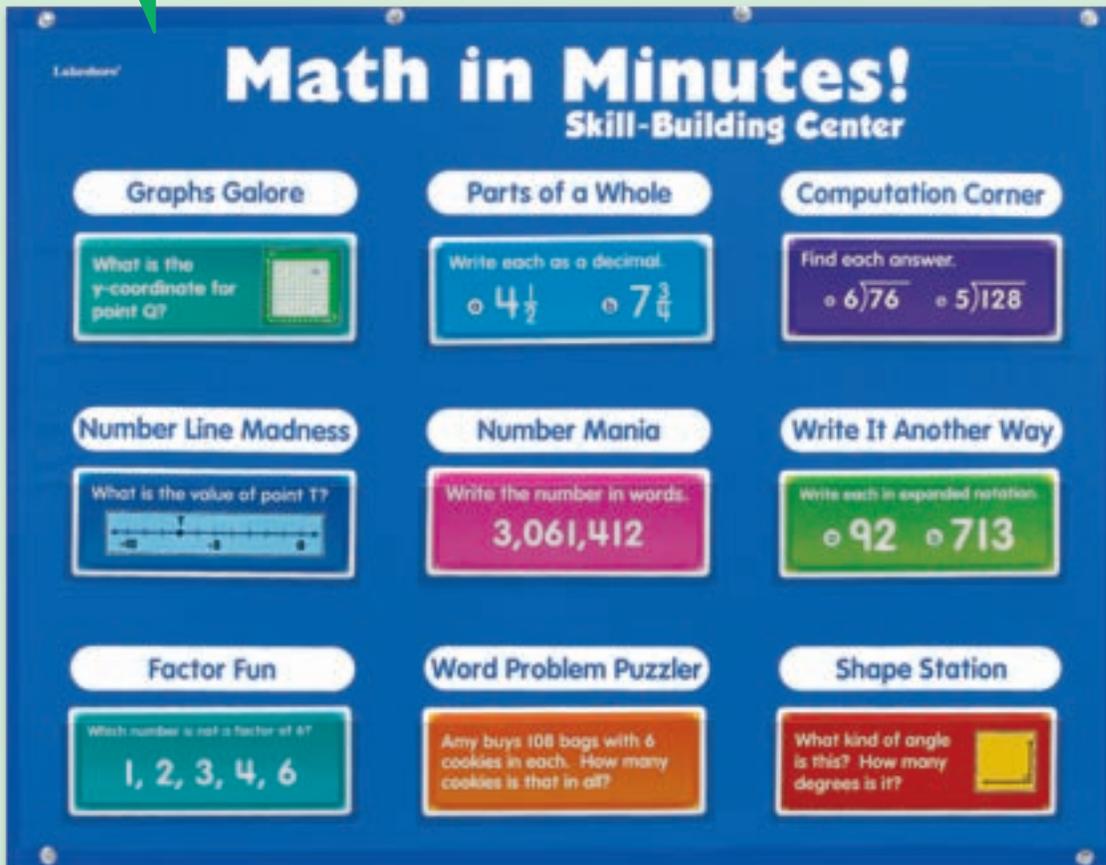


## Key Features

Shown below: Grade 4 Skill-Building Center

Handy **pocket chart** organizes cards for easy teaching.

Cards are organized into **9 different skill areas**, so you can easily provide targeted practice and extra reinforcement.



With **270 different problems**, students get the daily practice they need to progress.

Guide includes a reproducible chart for students to record their work—providing a convenient **informal assessment**.

**Math in Minutes!**  
Student Chart

Name: \_\_\_\_\_ Week of: \_\_\_\_\_

Graphs Galore	Parts of a Whole	Computation Corner
Number Line Madness	Number Mania	Write It Another Way
Factor Fun	Word Problem Puzzler	Shape Station

## Response to Intervention (RTI) Application

**Tier 2** With 270 problems to choose from, the centers allow teachers to select multiple problems within a specific skill area. The teacher can invite students to solve a different problem each day, modeling problem-solving strategies to help them reach the correct answer. The teacher can then administer an informal assessment by having students show their work or explain their answer on the included reproducible.

**Tier 3** The teacher can provide more intensive intervention by working with a single student. The teacher selects several problems within a single skill area and works with the student daily to solve each problem. As the teacher and student work together, they can use pictures or manipulatives to illustrate their problem-solving strategies and provide extra reinforcement.

# Essential Math Skills

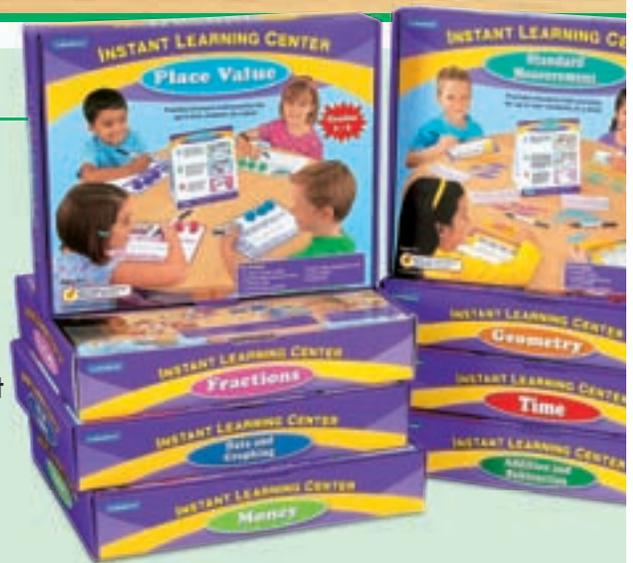
## Elementary Math Instant Learning Centers

Students build math skills in 8 key areas—using hands-on learning centers that get them actively involved in each lesson.

Ideal for everything from teacher-led intervention lessons to independent practice, each of our learning centers includes a double-sided chart with simple, illustrated instructions, plus 4 sets of hands-on materials—so up to 4 children can practice at once. Each center also includes an assessment card that helps monitor students' progress...and provides a permanent student record!

### Each Center Includes

- 4 sets of hands-on materials
- Double-sided instruction chart
- Answer key
- Write & wipe assessment card
- Teacher's guide with differentiated instruction strategies



### Grade Level 1 2

DD570X	Complete Set	\$179.00		
DD572	Place Value	\$24.95	DD578	Standard Measurement \$24.95
DD577	Fractions	\$24.95	DD575	Geometry \$24.95
DD576	Data & Graphing	\$24.95	DD574	Time \$24.95
DD573	Money	\$24.95	DD571	Addition & Subtraction \$24.95



### Implementation Idea

Work with a small group and complete the activity together. Before you begin, provide students with a simple problem-solving strategy that helps them organize their thinking—such as grouping similar activity pieces.

## Key Features

Shown below: Time Instant Learning Center



Double-sided instruction charts provide everyone with a great view of the activities.

Each center has materials for 4 students at a time—ideal for Tier 1 learning centers, Tier 2 intervention groups or one-on-one Tier 3 lessons.



Engaging, hands-on materials get students actively involved in each lesson.

Write & wipe card provides an informal assessment...and can be reproduced as a permanent student record.

## Response to Intervention (RTI) Application

**Tier 1** Teachers can set up the learning centers around the classroom to create multiple activity stations for the whole class to complete. As children work, the teacher identifies struggling students and the areas in which they need review or more intensive instruction.

**Tier 2** Each center includes enough materials for an intervention group of up to 4 students. The teacher can work with students to complete each activity, using the write & wipe assessment to record students' progress and pinpoint areas for additional instruction.

**Tier 3** After identifying a skill area in which a student needs extra teaching and support, the teacher can select the corresponding activity center to complete with the student. As they work, the teacher provides step-by-step strategies for solving each problem.

# Essential Math Skills

## Read About Math Learning Centers

Help students master essential math skills...with literature-based activity centers that provide a real-world context for learning.

Each of our math centers includes a paperback storybook that targets a specific math skill. We've also included 5 different activity cards with reproducibles right on back...plus all the manipulatives needed for up to 4 students to complete each activity. Children just read the book to gain a concrete sense of how a specific math skill can be used in everyday life...then complete the hands-on activities to extend and reinforce what they've learned.

### Each Center Includes

- Math-themed storybook
- 5 activity cards with reproducibles on back
- Enough hands-on manipulatives for 4 students at once
- Answer card



#### Grade Level 1 2 3

LL630X	Complete Set	\$199.00			
LL631	Measurement	\$29.95	LL635	Fractions	\$29.95
LL632	Number Sense	\$29.95	LL636	Time	\$29.95
LL633	Money	\$29.95	LL637	Problem Solving	\$29.95
LL634	Geometry	\$29.95	LL638	Algebraic Thinking	\$29.95
LC5326	Storage Rack	\$19.95			

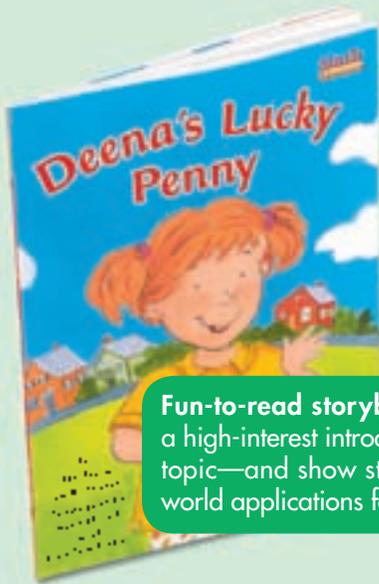


### Implementation Idea

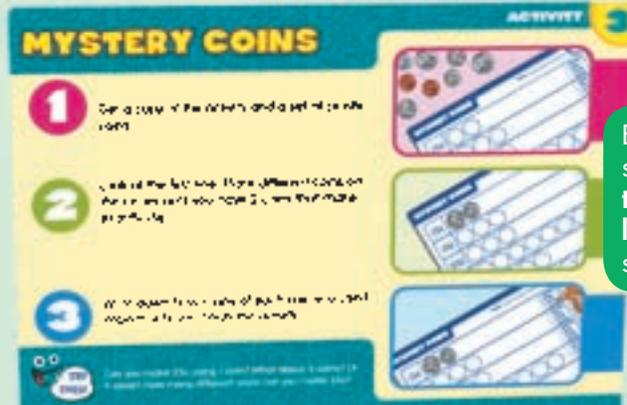
Read the storybook aloud with a group of 2–4 students. Then complete the reproducible activity together, using the manipulatives to build understanding.

## Key Features

Shown below: Money Learning Center



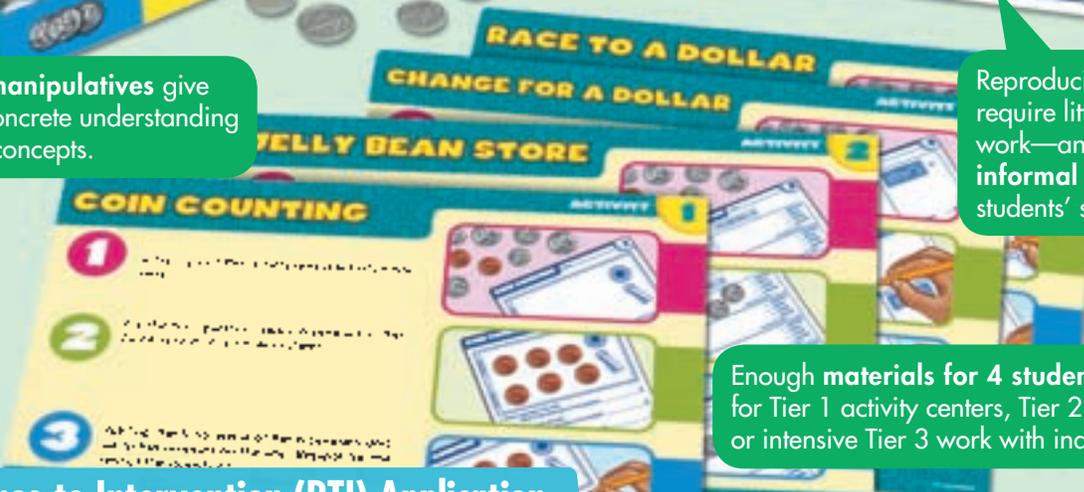
**Fun-to-read storybooks** provide a high-interest introduction to each topic—and show students real-world applications for each skill.



Each center covers a different skill, so you can provide **targeted intervention lessons** in any area where students need extra help.



**Hands-on manipulatives** give students a concrete understanding of essential concepts.



Reproducible activities require little teacher prep work—and provide a quick, **informal assessment** of students' skills.

Enough **materials for 4 students** at once—perfect for Tier 1 activity centers, Tier 2 intervention lessons or intensive Tier 3 work with individual students.

## Response to Intervention (RTI) Application

- Tier 1** The teacher can set up each center as a learning station for the class to explore in small groups. As students complete the activities, the teacher identifies which children need additional practice and which skills they need to focus on.
- Tier 2** Each center has enough materials for an intervention group of up to 4 students. The teacher will work together with students to read the story and complete one activity. Then students complete a different activity to demonstrate competency.
- Tier 3** Working one-on-one with a struggling student, the teacher will read the story. The teacher then completes an activity with the student, using the manipulatives to demonstrate problem-solving strategies.

# Essential Math Skills

## Math Activity Stations

Our activity-filled learning stations help students master place value, operations, fractions and more.

Each of our math stations features 4 different activities, all designed for use by up to 4 students at once. You get 4 sets of hands-on materials for each activity, plus a double-sided, tent-based flip book with simple, step-by-step instructions. We've also included a reproducible assessment to track students' progress, an answer key, plus a guide with reproducible worksheets. Each station comes in a handy storage box.

## Each Station Includes

- 4 different activities
- 4 sets of hands-on materials for each activity
- Double-sided instruction chart
- Teacher's guide with reproducible worksheets and an informal assessment recording sheet
- Answer key



### Grade Level 1 2 3

FF800X	Complete Set	\$295.00			
FF801	Operations	\$49.95	FF804	Geometry	\$49.95
FF802	Money	\$49.95	FF805	Fractions	\$49.95
FF803	Time & Measurement	\$49.95	FF806	Place Value	\$49.95

## Implementation Idea

Work one-on-one with a struggling student to provide extra support as the child completes an activity... and make detailed observations on the reproducible assessment sheet.



## Key Features

Each station has 4 different activities that target a specific math skill—so students get plenty of practical reinforcement.

Shown below: Operations Activity Station

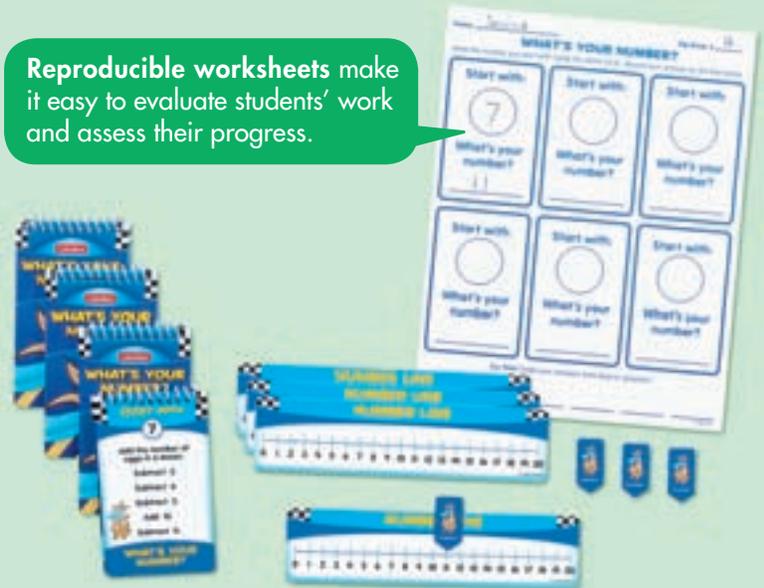
### Activity 1: Solve It!

Double-sided flip book provides step-by-step instructions...and gives every student a great view of the activity.



### Activity 2: What's Your Number?

Reproducible worksheets make it easy to evaluate students' work and assess their progress.



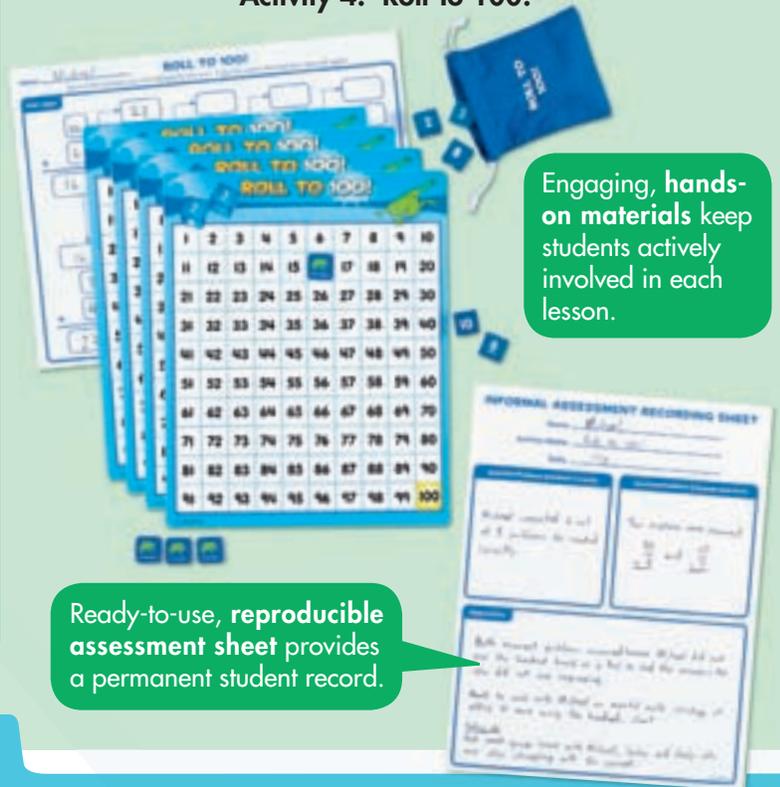
### Activity 3: Sort & Score



You get enough materials for up to 4 students at a time—perfect for Tier 2 intervention lessons.

### Activity 4: Roll To 100!

Engaging, hands-on materials keep students actively involved in each lesson.



Ready-to-use, reproducible assessment sheet provides a permanent student record.

## Response to Intervention (RTI) Application

**Tier 2** Each activity comes with enough materials for an intervention group of up to 4 students. The teacher can demonstrate the activity and ask students to complete the activity themselves. As students work, the teacher makes observations, provides extra support and addresses any misconceptions.

**Tier 3** The teacher can use the reproducible assessment sheet to identify problem areas in which students need extra practice. The teacher then works in depth with an individual student, providing instructions for completing each activity and asking guided questions as children work.

## Hands-On Regrouping Kits

Students master addition and subtraction skills...with hands-on regrouping kits that make challenging math problems easy to solve.

Each kit includes a regrouping tray with 75 place value tiles representing ones, tens and hundreds. Plus, we've included 40 self-checking problem cards that feature 2-digit and 3-digit numbers—so you can choose a level that's right for your students. Just place a problem card onto the tray, help students count out place value tiles to visually represent each numeral in the equation...then regroup the tiles to work out the answer. Each kit comes complete with a write & wipe problem-solving card to record students' answers, plus a teacher's guide with a reproducible observation checklist.

### Each Kit Includes

- 8 $\frac{5}{8}$ "x 14 $\frac{1}{4}$ " regrouping tray
- 75 place value tiles
- 40 self-checking problem cards
- Write & wipe problem-solving card
- Teacher's guide with reproducible observation checklist



Grade Level **1 2 3**

FF297	Addition Kit	\$24.95
FF298	Subtraction Kit	\$24.95



### Implementation Idea

Guide an individual student through the regrouping process—and make notes about the student's progress on the reproducible observation checklist.

## Key Features

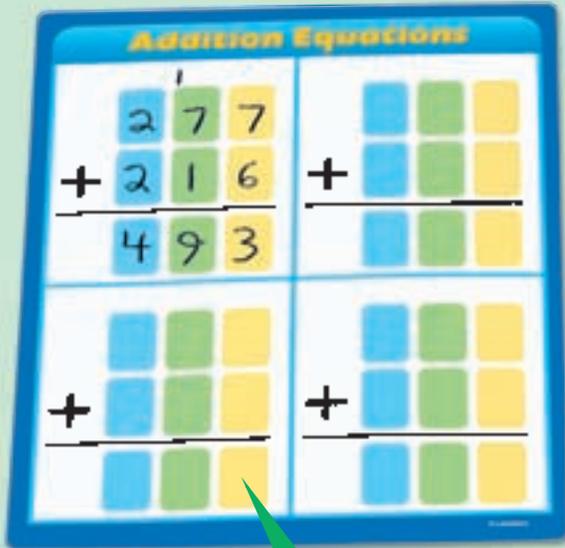
Shown below: Addition Kit

Compartmentalized tray and hands-on tiles give students a concrete way to visualize place value...and provide the conceptual basis to understand the process of regrouping.

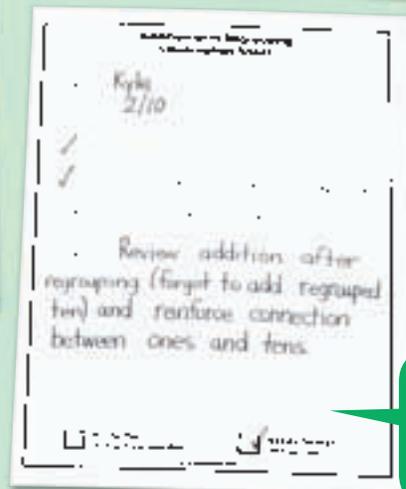
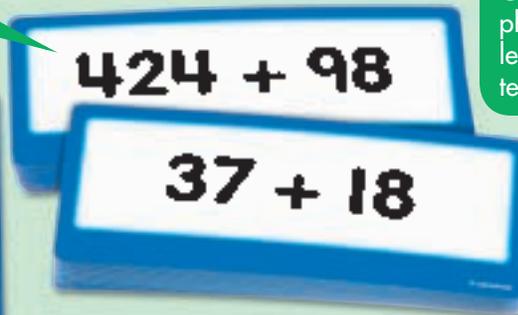


A variety of problems with 2-digit & 3-digit numbers deepen conceptual fluency and conceptual understanding.

Children move 10 tiles at a time to physically regroup numbers—and learn the connection between ones, tens and hundreds.



Write & wipe problem-solving card can be used as an instant informal assessment.



Reproducible observation checklist can be used to identify students who need additional instruction...and provides a permanent student record.



## Response to Intervention (RTI) Application

**Tier 2** In a small-group setting, teachers can begin by using the problem cards that contain 2-digit numbers—demonstrating how to regroup 10 ones at a time using the tiles and tray. Once students demonstrate their understanding, the teacher can then add problems with 3-digit numbers, showing how to group 10 tens into the hundreds column.

**Tier 3** The teacher can use the write & wipe problem-solving card with each student in the Tier 2 group to identify students who need more intensive intervention. Working with each of those students on an individual basis, the teacher walks the student through each step of the process, asking questions like, "We now have more than 10 tiles in the ones column. What do we do next?"

# Place Value

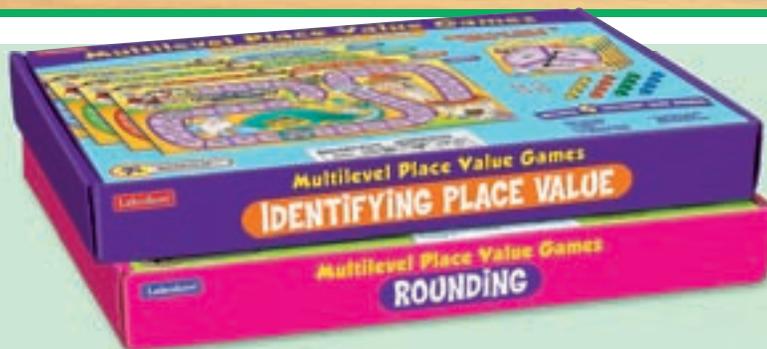
## Multilevel Place Value Games

Students build place value skills at just the right pace—with irresistible board games that feature 4 levels of play!

Each game set at right has 4 different games—all gradually increasing in difficulty. As players race to the finish line on each board, they get super-involving practice with rounding numbers and identifying place value. Each game has an answer card for instant reinforcement, plus a reproducible that lets players record their work as they go—so you can easily assess their skills. Each game is for 1–4 players.

### Implementation Idea

Sit with a small group of students to both guide game play and provide problem-solving strategies. Make notes on individual students who may need more intensive, one-on-one instruction.



### Each Game Set Includes

- 4 different game boards
- 4 spinners
- 4 dice
- 16 game pawns
- 4 answer cards
- Teacher's guide

Grade Level **2 3 4**

HH162	Identifying Place Value	\$19.95
HH163	Rounding	\$19.95





# Fractions, Decimals & Percents

## Building Fractions, Decimals & Percents Magnetic Board

Students learn to visualize parts of a whole...and explore equivalency in a highly concrete way!

Our activity board comes with over 100 double-sided and color-coded magnetic pieces—all clearly labeled with a fraction on one side and the equivalent decimal and percentage on the other. Students can combine the pieces to make a whole...mix and match pieces to compare equivalent values...compare fractions, decimals and percents in bar and circle form...and more! Includes a teacher's guide with lesson ideas and differentiated instruction strategies.

### What's Included

- 12" x 12" magnetic board
- Over 100 double-sided, color-coded magnets
- Teacher's guide

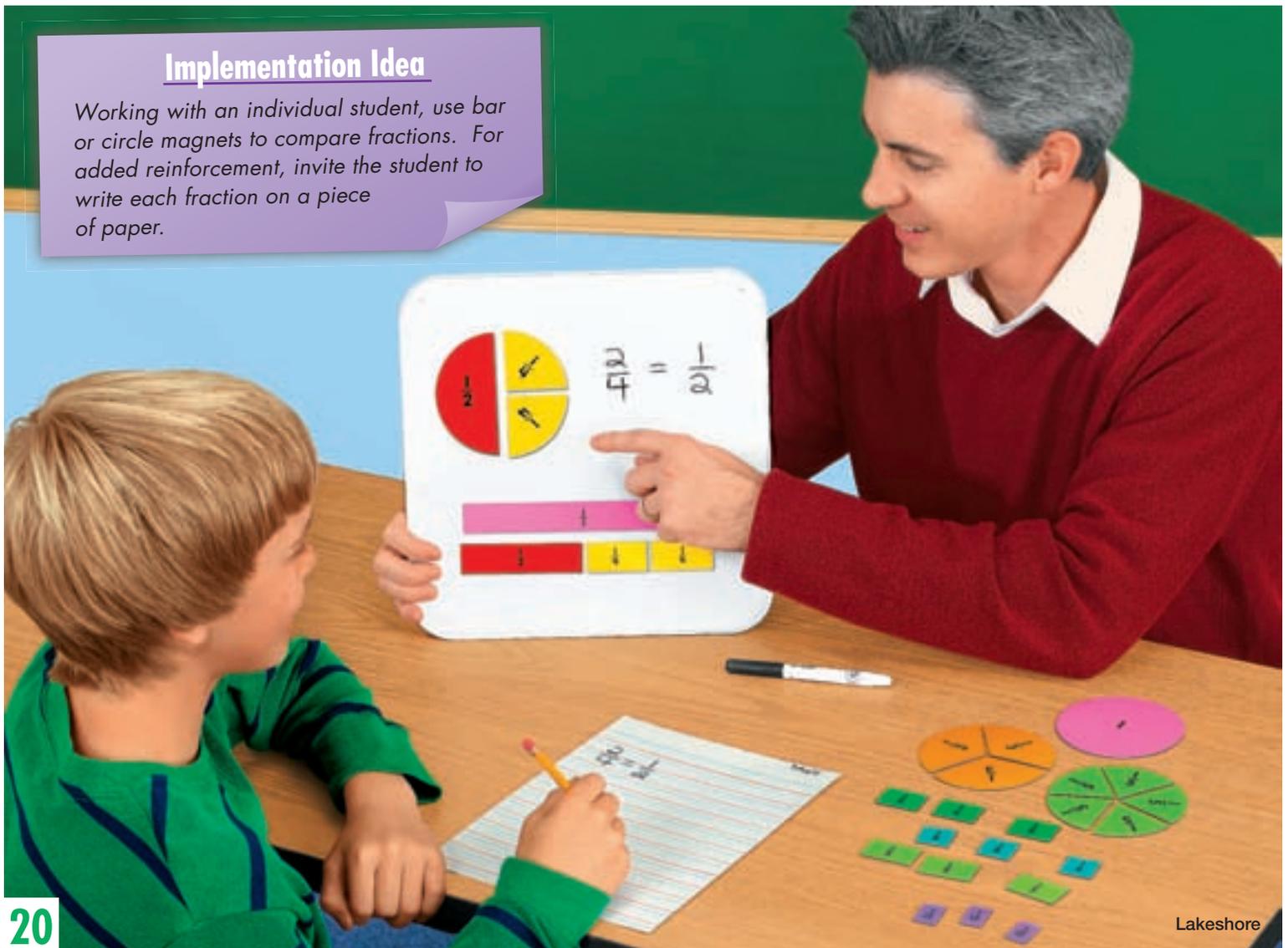


Grade Level **3 4 5**

HH675 Building Fractions, Decimals & Percents Magnetic Board \$29.95

### Implementation Idea

Working with an individual student, use bar or circle magnets to compare fractions. For added reinforcement, invite the student to write each fraction on a piece of paper.



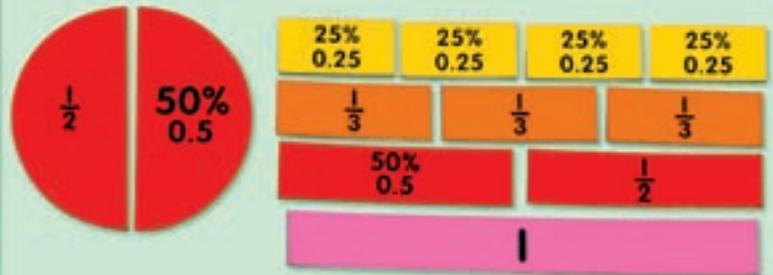
# Fractions, Decimals & Percents

## Key Features



Magnetic board makes the activities **portable**—so they can be completed anywhere.

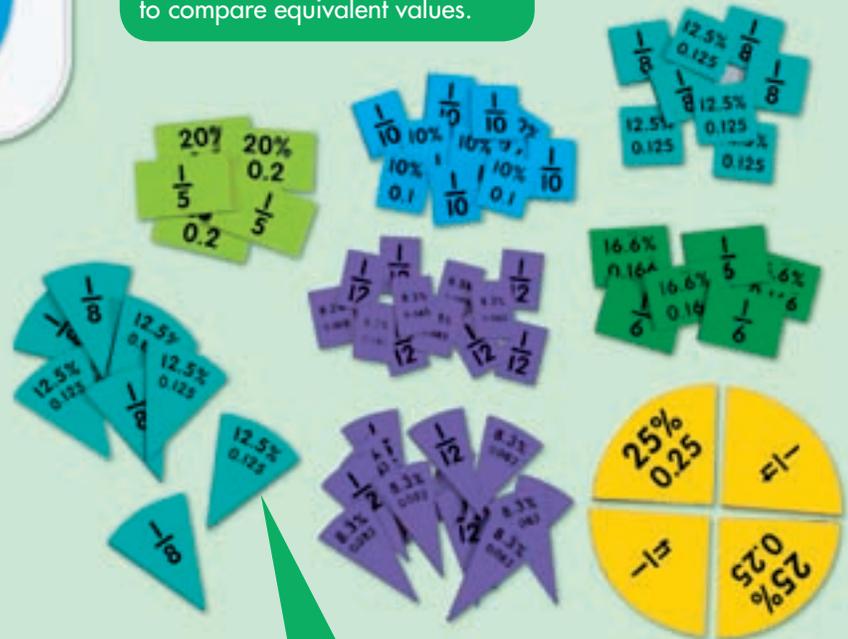
**Bar and circle magnets** provide students with two highly visual ways to conceptualize fractions, decimals and percents.



Magnets are **perfectly related in size**—making it easy for students to compare equivalent values.



**Teacher's guide** includes ideas for comparing, converting & performing simple operations with fractions, decimals and percents.



**Double-sided magnets** have fractions on one side and equivalent decimals and percents on the other. And the bar and circle magnets are **color-coded** so students can compare equivalencies with ease.

## Response to Intervention (RTI) Application

**Tier 2** The teacher's guide includes detailed lesson ideas for conducting small-group interventions—from how to introduce numerators and denominators to how to convert decimals to percents. The teacher can use the magnets to demonstrate concepts and create simple problems for students to solve, addressing misunderstandings and reinforcing necessary skills.

**Tier 3** After identifying which concept or concepts a student may be struggling with, teachers can use the activities in the guide as the basis for targeted Tier 3 intervention lessons. The teacher can conduct each lesson using both the bar and circle magnets, providing the student with two opportunities to grasp the same concept.

# Fractions, Decimals & Percents

## Building Fractions Activity Center

This center provides students with a great way to strengthen skills—by helping them build, write, add and compare fractions!

Our hands-on center includes a large storage tray filled with 250 labeled fraction pieces... plus 22 activity cards that prompt students to build a variety of fractions from halves to twelfths. Children simply combine fraction pieces to cover the shaded area on the cards...then write corresponding fraction equations in the write & wipe space below. Students can even check their answers with the included answer key!

### What's Included

- 22 write & wipe activity cards
- 250 fraction pieces
- Storage tray
- Teacher's guide with answer key

Grade Level **3 4**

HH978 \$39.95



### Implementation Idea

Working one-on-one with a struggling math learner, provide extra support using the activity cards and fraction pieces—allowing for the in-depth reinforcement students need to master important math concepts.



# Fractions, Decimals & Percents

## Key Features

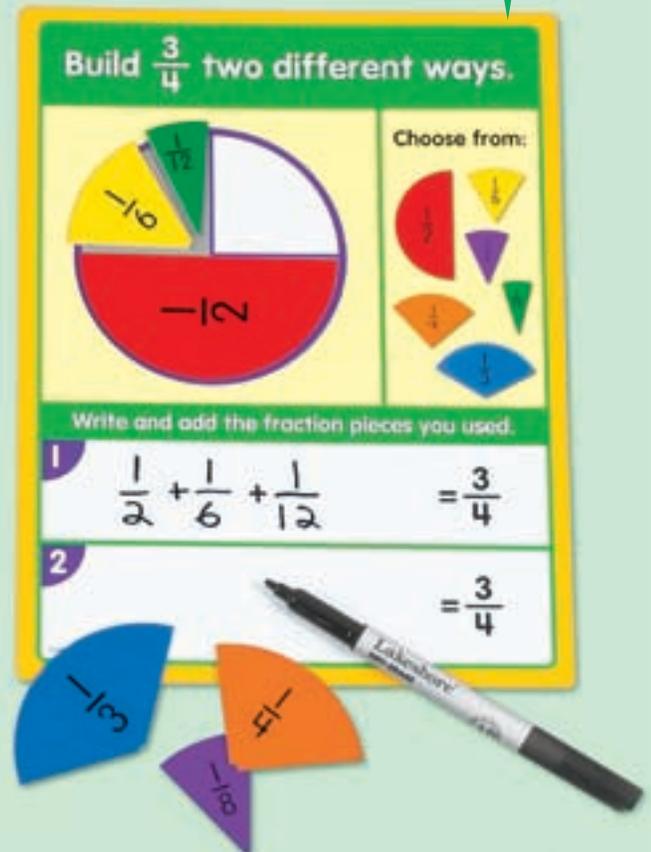
Color-coded fraction pieces make it easy to build & display equivalent fractions.

Storage tray keeps the fraction pieces organized & accessible—making it easy to conduct lessons in a time-efficient manner.

By first building the fractions, students develop the **concrete understanding** they need in order to deepen a more **conceptual understanding** of fractions.



250 fraction pieces allow small groups of students to work at the same time!



Write & wipe activity cards can also be reproduced to record student work—making them instant **informal assessments**.

## Response to Intervention (RTI) Application

**Tier 2** In a small-group setting, the teacher can use the fraction pieces to demonstrate how smaller fractions (such as  $\frac{1}{4}$ ) can be used to make larger fractions (such as  $\frac{1}{2}$ ). Since the fraction pieces are proportionally sized, the teacher and students can simply place the fraction pieces on top of each other to demonstrate equivalence. As students become more proficient at building equivalent fractions, introduce the activity cards and solve them together as a group.

**Tier 3** After assessing the need for a more intensive, one-on-one intervention, the teacher can use the fraction pieces to demonstrate fractions, equivalent fractions, and their relation to one whole. The teacher and student can build several different fractions together, and then reinforce the lesson by focusing on the activity cards.

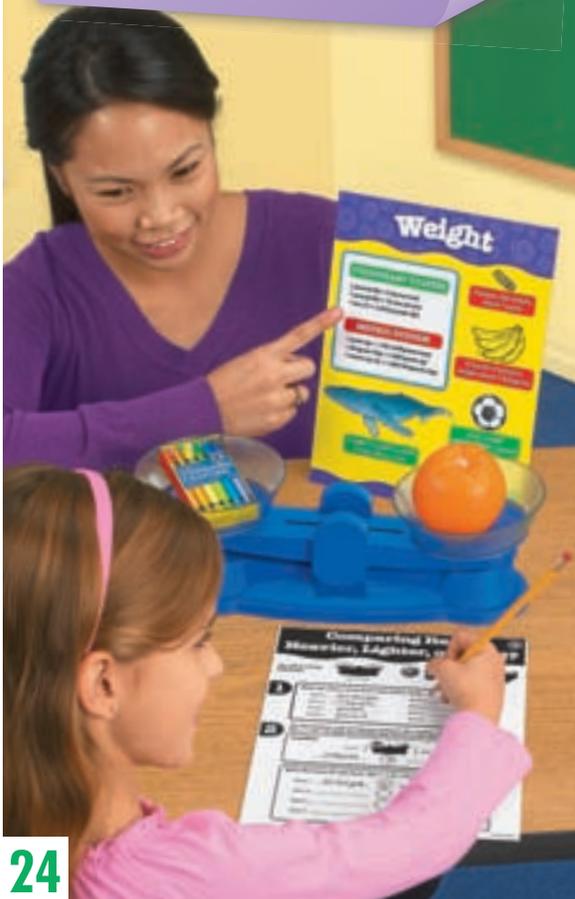
## Hands-On Measurement Centers

Involving, hands-on activities help students gain a concrete understanding of measurement concepts.

Each center has 10 different activity cards that are both write & wipe and reproducible...plus all the hands-on tools to complete each activity—from comparing weights with balance and platform scales to measuring volume with 1" cubes. You also get a conversion chart that provides a visual reference as students work, plus a teacher's guide that comes complete with a 2-page student assessment.

### Implementation Idea

*Working with a struggling student, point out each step in the problem-solving process and ask guiding questions like, "What tools will we need to solve this problem?"*



## What's Included

Grade Level **1 2 3**

DD555X Complete Set

\$129.00

DD557 Length, Perimeter, Area & Volume

\$44.95

- 10 write & wipe activity cards
- Conversion chart (customary & metric)
- 2-page assessment
- 2 rulers
- 2 measuring tapes
- 50 foam measuring tiles
- 50 foam measuring cubes
- 3 volume boxes
- Teacher's guide with differentiated instruction strategies



DD559 Weight

\$44.95

- 10 write & wipe activity cards
- Conversion chart (customary & metric)
- 2-page assessment
- Balance scale
- Platform scale
- 30-piece gram weight set
- Teacher's guide with differentiated instruction strategies



DD558 Capacity

\$44.95

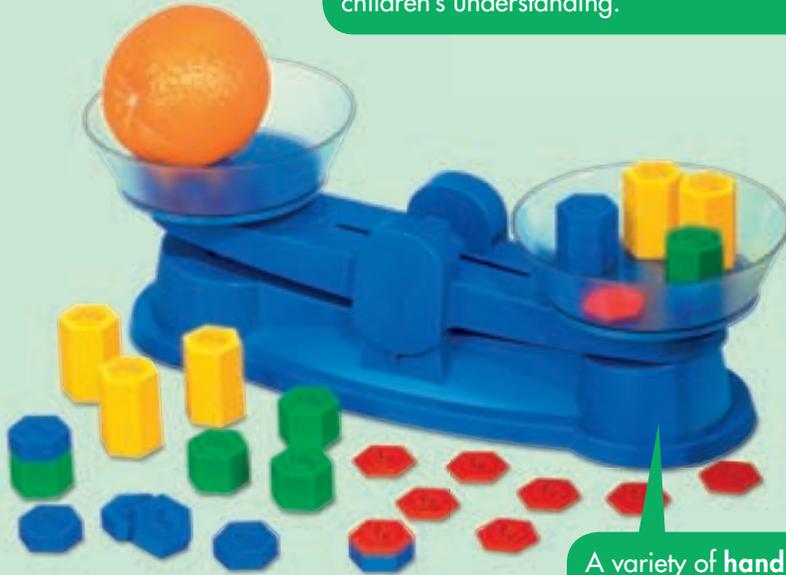
- 10 write & wipe activity cards
- Conversion chart (customary & metric)
- 2-page assessment
- Metric & customary measurement tools:  
Measuring cup (1 liter/4 cups)  
Graduated cylinder (10 mL)  
Funnel  
4 see-inside measuring cartons  
Gallon container
- Teacher's guide with differentiated instruction strategies



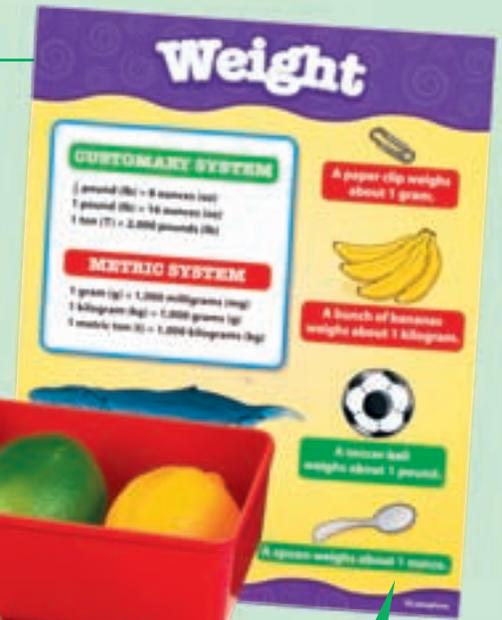
## Key Features

Shown below: Weight Measurement Center

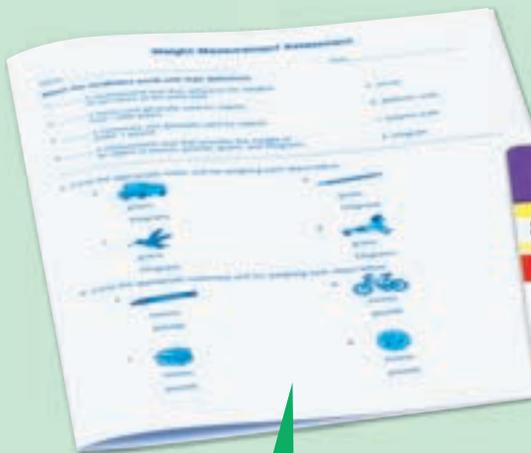
Conversion chart and hands-on tools provide multiple ways to solve measurement problems—meeting the needs of all students and ensuring children’s understanding.



A variety of hands-on measurement tools get students actively involved in each lesson.



Freestanding chart provides a visual reference for comparing and converting measurements.



Includes a two-page assessment that provides in-depth feedback on students’ progress.



Activity cards are write & wipe and reproducible—so they can be used as a quick, informal assessment and a permanent student record.

## Response to Intervention (RTI) Application

**Tier 2** Teachers can select an activity relating to a specific measurement concept and model multiple ways to solve the problem—including using the conversion chart and the hands-on measurement tools. Students then try solving a new activity on their own, choosing their own method of problem solving.

**Tier 3** After identifying a student in need of one-on-one instruction, teachers can choose an activity and walk the student through each step of the problem-solving process—including helping the student select the appropriate measurement tools to use. After completing several activities together, the teacher can use the included assessment to monitor student progress.

# Problem Solving

## Math in a Flash! Discovery Cans

Our hands-on discovery cans provide instant reinforcement of 16 different math concepts.

Ideal for targeted interventions, each discovery can at right includes 25 question cards and 3 manipulatives to help students solve a variety of problems. Each of the cards features simple language along with illustrations of which manipulatives to use to solve the problems, making the cards easy for students to understand. Plus, the cards have the answers on back—providing students with immediate feedback! In addition, several cards in each can target the same type of problems, giving students multiple opportunities to practice their skills. Each set at right includes 8 different discovery cans; 200 questions per set.

### Each Discovery Can Includes

- 25 question cards
- 3 different math manipulatives
- Activity guide



#### Grade Level **K 1**

Code	Item	Price
LL260X	Complete Set	\$149.00
LL280	Shapes	\$19.95
LL281	Patterns	\$19.95
LL282	Number Sense	\$19.95
LL283	Measurement	\$19.95
LL284	Addition/Subtraction	\$19.95
LL285	Place Value	\$19.95
LL286	Money	\$19.95
LL287	Time	\$19.95



#### Grade Level **2 3**

Code	Item	Price
LL265X	Complete Set	\$149.00
LL288	Geometry	\$19.95
LL289	Measurement	\$19.95
LL290	Operations	\$19.95
LL291	Place Value	\$19.95
LL292	Money	\$19.95
LL293	Time	\$19.95
LL294	Algebraic Thinking	\$19.95
LL295	Fractions	\$19.95

**⚠ WARNING: CHOKING HAZARD** — Item contains small parts and small ball. Not for children under 3 yrs.

### Implementation Idea

As students solve the problems, help them use the manipulatives to represent each problem concretely—building greater conceptual understanding and reinforcing problem-solving strategies.



## Key Features

Illustrations at the top of each card tell students which manipulatives to use to solve the problem.

K-1 cards have picture clues to help scaffold reading.

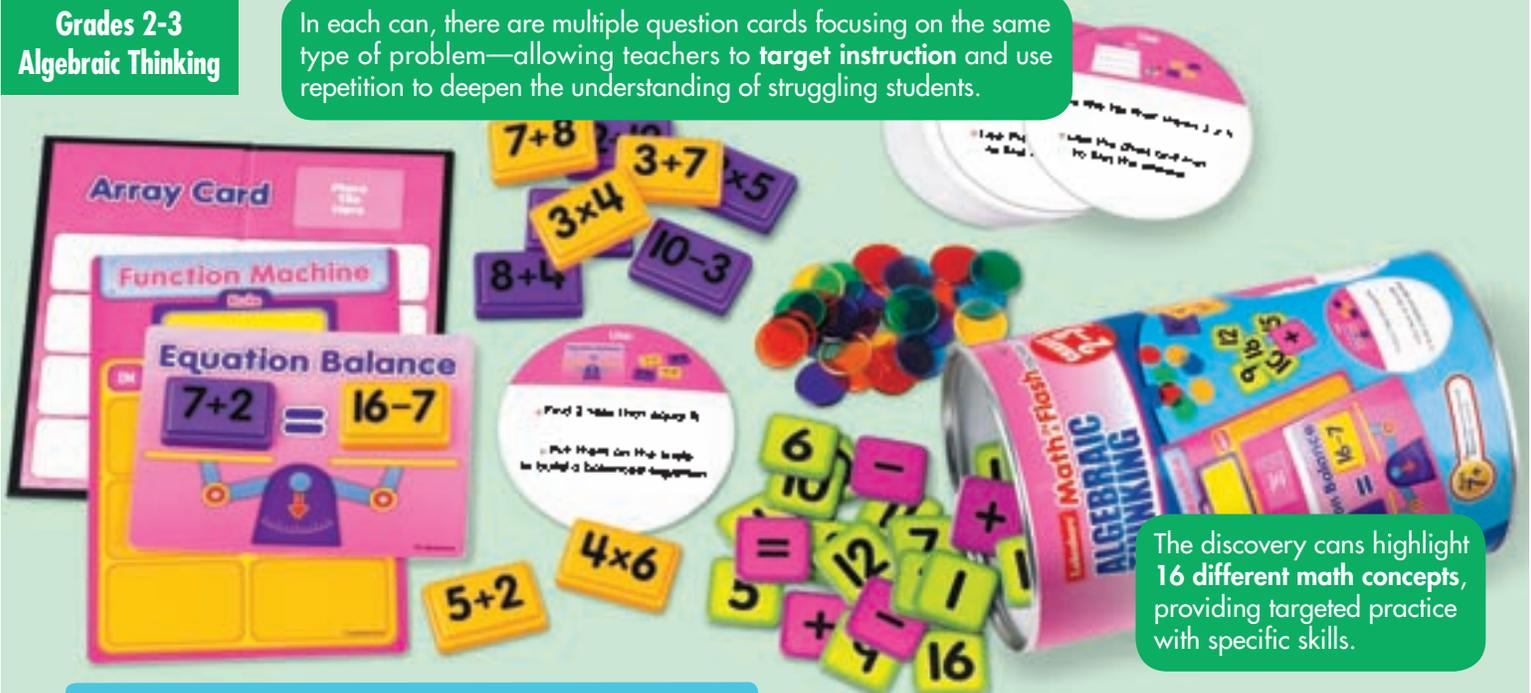
Grades K-1  
Money



The 3 different manipulatives used in each activity provide hands-on practice that engages students and motivates reluctant learners.

Grades 2-3  
Algebraic Thinking

In each can, there are multiple question cards focusing on the same type of problem—allowing teachers to target instruction and use repetition to deepen the understanding of struggling students.



The discovery cans highlight 16 different math concepts, providing targeted practice with specific skills.

## Response to Intervention (RTI) Application

**Tier 2** In a small-group setting, the teacher selects a question card that focuses on a skill students need to review. After demonstrating how to use the manipulatives to solve the problem, the teacher gives students a different question card (featuring the same type of word problem) and asks students to solve it. By observing students as they use the manipulatives to solve the problem, the teacher will be able to identify individual students who need more intensive instruction.

**Tier 3** Working one-on-one with a single student who requires extra instruction, the teacher guides the child as she solves one or two problems of the same type, scaffolding instruction as needed.

# Problem Solving

## Highlight the Clues Problem Solving Flip Charts

Students learn how to find important information in math problems—with innovative flip charts that highlight the clues!

Each level-appropriate problem-solving chart includes 15 story problem flips, 15 acetate flips and a write & wipe space to work out the answers. Students just read through a problem, identify the numbers needed to solve it...then fill in the information in the write & wipe space below. For extra help, students can flip the acetate to highlight the clues—and use the color-coded information to solve the problem! Charts are 15" x 15¼"; with answers on the back of each flip for immediate reinforcement.

### What's Included

- 15" x 15¼" freestanding chart with a write & wipe work space
- 15 story problem flips
- 15 acetate flips

Grade Level **2 3 4 5**

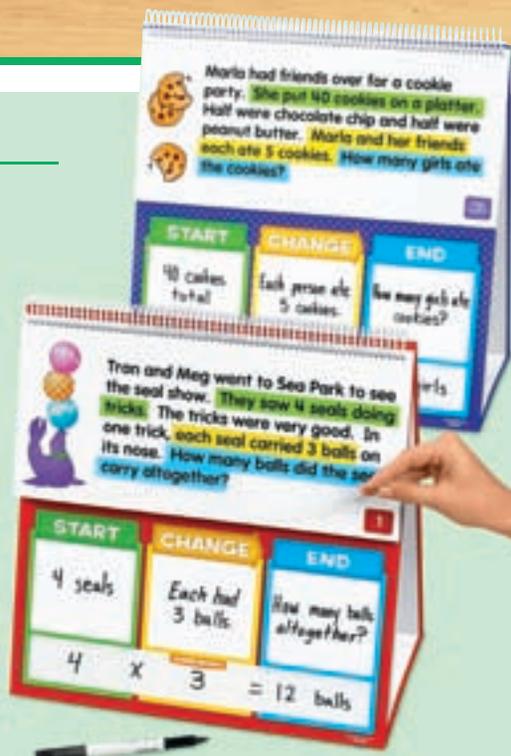
HH226 Grades 2-3 \$29.95

HH227 Grades 4-5 \$29.95

DD105 Black Write & Wipe

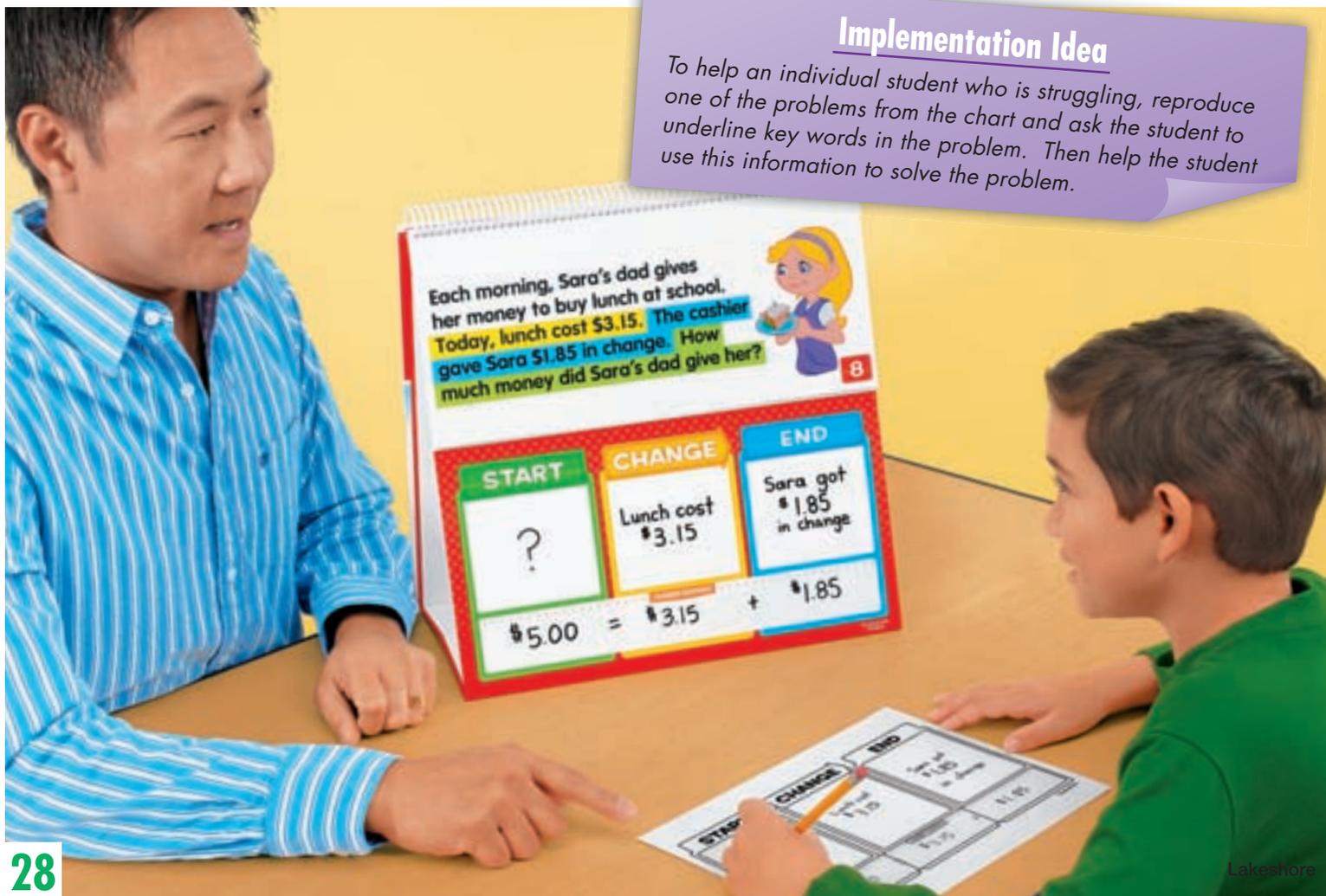
Markers - Thin-Line - Set of 4 \$3.99

⚠ WARNING: CHOKING HAZARD — Small parts. Not for children under 3 yrs.



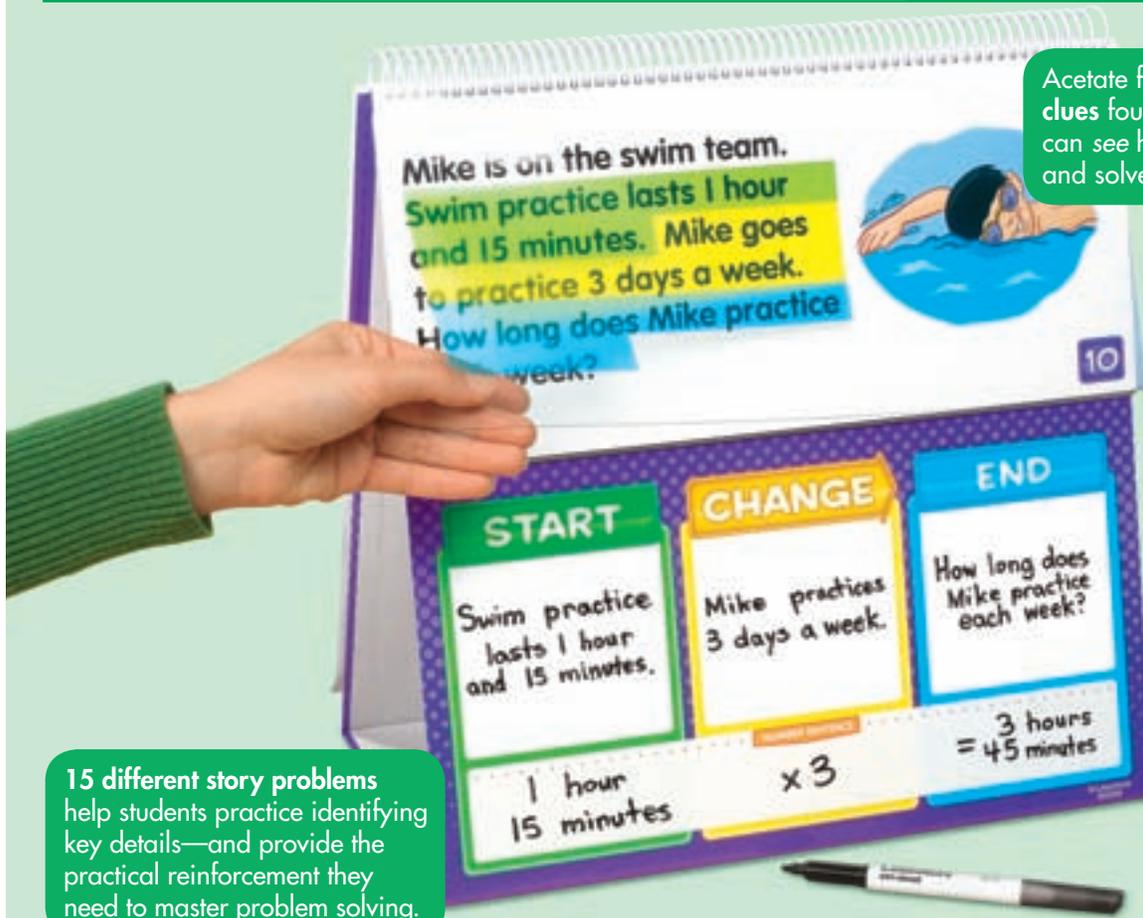
### Implementation Idea

To help an individual student who is struggling, reproduce one of the problems from the chart and ask the student to underline key words in the problem. Then help the student use this information to solve the problem.



## Key Features

Shown below: Gr. 4-5 Problem Solving Flip Chart

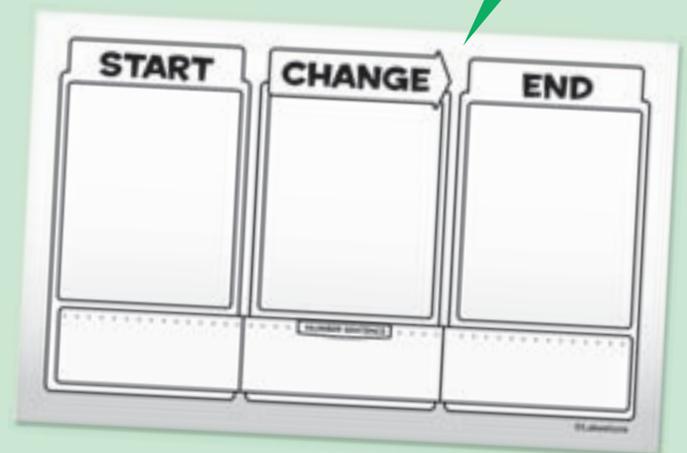
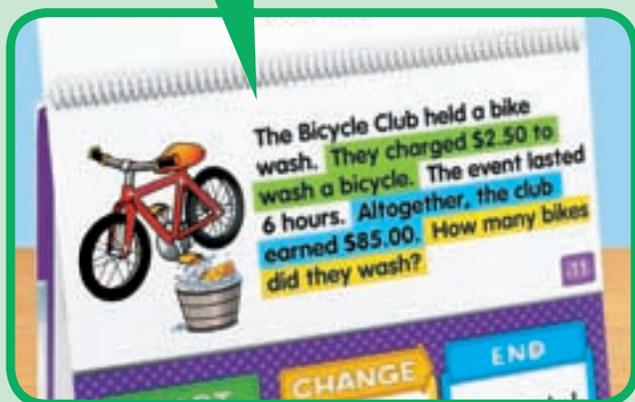


Acetate flip highlights important clues found in the text—so students can see how to locate key information and solve the problem.

Write & wipe work space helps students record key information from the text—giving them the practice they need to solve word problems on their own.

15 different story problems help students practice identifying key details—and provide the practical reinforcement they need to master problem solving.

Reproducible worksheet provides an informal assessment...and can be kept as a permanent student record.



## Response to Intervention (RTI) Application

**Tier 2** Working with a small group of students, teachers can preselect a problem. The teacher then encourages students to identify the key elements students will need to solve the problem, and then record those details in the write & wipe work space. The teacher can help correct students' thinking as they go, and then flip the acetate to reveal the correct problem-solving clues.

**Tier 3** The teacher can work with an individual student to provide extra practice with problem solving. As the teacher and student work together to solve each problem, the teacher helps the child develop a method for solving this and future problems by asking, "What information in the problem is key to solving it?"

# Supplement face-to-face instruction with exclusive, standards-based software!

To view over 100 software titles for interactive whiteboards and computers, visit [LakeshoreLearning.com/software](http://LakeshoreLearning.com/software).

HH937  
Daily Interactive  
Math Station



Mac/PC compatible!

**NUMBER SENSE**

Write  $>$ ,  $<$ , or  $=$  to compare the fractions.

**TIME & MONEY**

Write  $>$ ,  $<$ , or  $=$  to compare the coin values below.

**GEOMETRY & MEASUREMENT**

Compare the shapes and complete the chart.

Number of Vertices		
Number of Faces		
Number of Right Angles		

**ALGEBRA & PATTERNS**

If this pattern continues, how many marbles will be in the fourth jar?

**GRAPHING & PROBABILITY**

Neomi graphed how long it took to finish her chores each night last week.

- On which day did Neomi spend the most time on her chores? \_\_\_\_\_
- On which day did she spend the least time? \_\_\_\_\_
- Did Neomi ever finish her chores in less than 5 minutes? \_\_\_\_\_

**PROBLEM SOLVING**

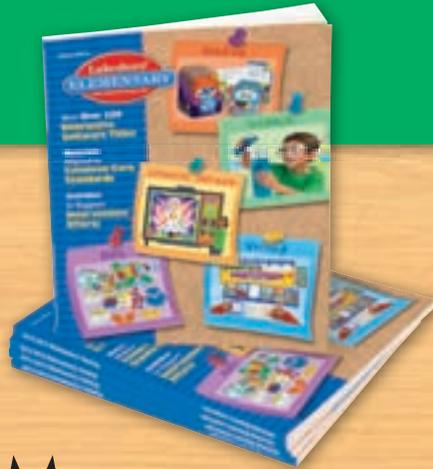
Complete the chart to show how many wheels are on each group of bicycles.

Number of Bicycles	1	2	3	4	5
Number of Wheels	2	4			

# Lakeshore service... a reputation built on quality!



**N**ationwide Retailer  
with over 50 stores



**M**ail-Order Catalogs  
targeted material for  
birth–6th grade



**F**ull-Service Website  
[LakeshoreLearning.com](http://LakeshoreLearning.com)

✓ **Lakeshore-exclusive materials**  
designed by teachers, for teachers.

✓ **Everyday low prices**  
with no artificial markups or inflated discounts.

✓ **In stock and ready to ship**  
direct from Lakeshore.

✓ **Rigorous safety standards**  
that exceed the requirements  
of U.S. law.



# Lakeshore®

Lakeshore Learning Materials  
2695 E. Dominguez Street  
Carson, CA 90895

PRSR STD  
US POSTAGE  
**PAID**  
LAKESHORE  
LEARNING  
MATERIALS

## Ordering Information



order by phone toll free  
**(800) 778-4456**

Mon.-Fri. 6 am-6 pm and Sat. 8:30 am-5 pm, PST



order online  
**LakeshoreLearning.com**



order by fax toll free  
**(800) 537-5403**

Current pricing in effect until January 2013. If ordering after this date, please contact us at (800) 421-5354.

S6927/MKTG66-12

Products designed  
with learning  
in mind.™



*We unconditionally guarantee every item. We stake our reputation on the quality of our products. If you are unhappy with any item for any reason, return it to us for a full refund or exchange. Your satisfaction is our number one priority!*

**- Bo Kaplan, President & CEO**

## Visit a store near you!

Visit our website to find the nearest location.  
[LakeshoreLearning.com/Stores](http://LakeshoreLearning.com/Stores)



Free Crafts for Kids Every Sat. 11-3

2012-2013  
**Lakeshore®**  
**ELEMENTARY**  
Products designed with learning in mind.™

Now Over 120  
**Interactive Software Titles**

Materials  
Aligned to  
**Common Core Standards**

Activities  
to Support  
**Intervention Efforts**

Reading

Science

Math

Writing

Interactive Software

For FREE copies of our  
Elementary catalog, call  
**(800) 421-5354.**

Connect with us.

