

Sample Pages from
Teacher's Guide

6 Pages

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Leveled
MATH
Readers

TEACHER'S GUIDE

Talk Math • Read Math • Do Math

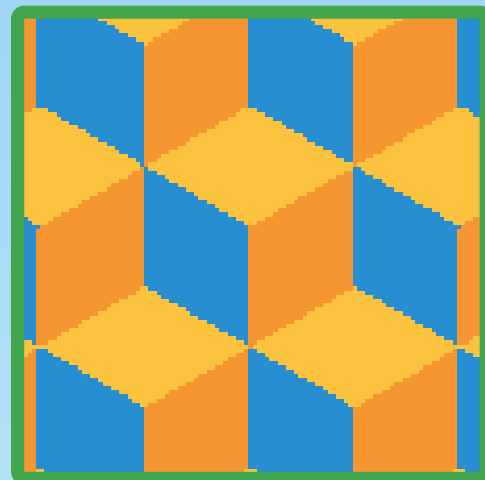
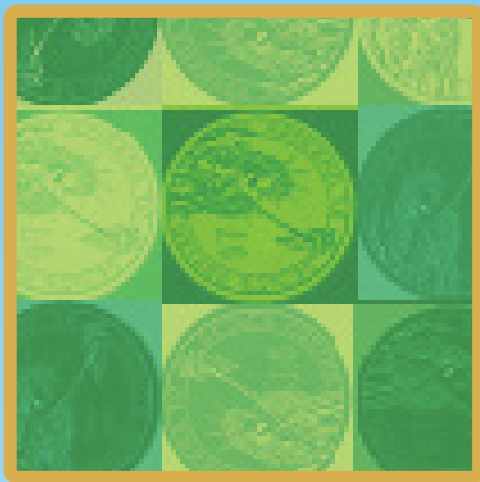


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Introduction

About the Series

The Leveled Math Readers offer content-area reading about important math topics and concepts. These books are leveled to help you determine which books students may read independently or as part of a guided reading session. You will find that these versatile books are ideal resources for math lessons. They may also be sent home for students to read and explore with their families.

Used alone or in conjunction with the supporting teacher's notes and activities in this guide, the Leveled Math Readers are designed to help students

- experience engaging stories and informational text designed to spark their imaginations.
- build essential vocabulary and concepts that relate to problem solving and mathematical thinking.
- apply and reinforce reading skills.
- analyze patterns within and beyond the books.
- engage in discussion to enhance comprehension as well as speaking and listening skills.

Teacher's Notes and Activity Pages

- In this guide you will find detailed teacher's notes and activity pages for 30 books.
- Included are ideas for introducing and discussing the books and for reinforcing learning through hands-on activities and writing, as well as suggestions for ways to use the reproducible activity sheets. All suggestions may be easily adjusted to suit different ability levels and learning styles.
- Each activity sheet includes a note to families so that students can share what they have learned and continue learning at home.

About the eBooks

- Each 3–5 Leveled Math Reader is also available as an eBook. These eBooks are ideal resources for whole-class discussion and to help support reading skills and reinforce the math concepts explored in the book. For your convenience, copies of the related teacher's notes and activity page from this guide can also be found on the CD-ROM.
- The software features page-turning functionality, which allows you to use the book on an interactive whiteboard with the whole class or in groups. Each eBook contains an array of whiteboard tools, allowing you to annotate key vocabulary or highlight key teaching points. Annotations can be saved and utilized for assessment, lesson continuation, or future referral.*
- Note that the audio support provided in the eBooks is in a text-to-speech format. Though the majority of your students will not likely need to use the audio, it is provided for those readers who may need a little extra support.



Additional Resources

- Skills Index: The materials in this guide support current standards as well as best practices for building math skills. See page 64 for a ready reference to math concepts.
- Website: Visit www.scholastic.com/leveledmathreaders for more information, including correlations with Common Core State Standards and details about Leveled Math Readers available for other grades.

Recommended System Requirements

- Windows XP SP3 or later;
Mac OSX v 10.4.11 or later
- Flash 10.0 or higher
(not included on discs)
- Recommended minimum
processor speed 2GHz
and 1 GB RAM

**In order for the annotations to be saved for future use, the product must be installed to your computer hard drive. Please note that the 'save' function is not available when this product is installed on a Mac.*

Growing a Business

Number and Operations in Base Ten

- Multiply and divide whole numbers
- Solve real-life word problems

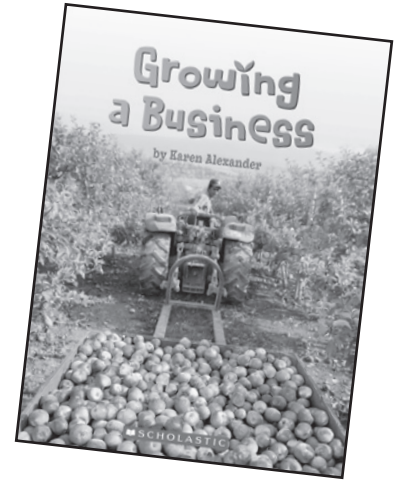
Key Vocabulary

feet, pounds, meters

Level L

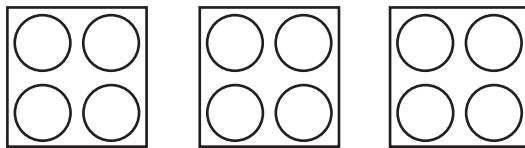
Read and Talk Math

- Display the cover and read the title. Ask: *What business do you think you will learn about in this book? How might math be a part of that?*
- Before students begin to read on their own, have them preview the book by looking at the photos. Say: *As you read the book and look at the photos, be sure to read the captions for the photos, as well.*
- After students have read the book independently, reread the note on page 3. Ask: *About how many kinds of apples are not grown for market? List several kinds of apples on the board, such as red delicious, McIntosh, and Granny Smith. Take a quick survey to see which apple is the favorite of the class. Use tallies to record students' votes.*
- Next, reread the note on page 5. Turn to the picture on page 11 and ask: *Do you think an apple tree is taller or shorter than the height of our classroom? Why?*
- Discuss the different uses for apples, listed on page 12. Ask: *Suppose you needed two pounds of apples to make an apple pie. How many pounds of apples would you need to make five apple pies?*



Read and Do Math

- Assign partners to revisit the book and work together to complete each Wise Up! activity and the Challenge activity. Share and compare answers and the procedures used to solve the problems.
Hint for Challenge on page 16: Draw 18 circles. Divide each circle into four quarters; use each quarter to represent one apple.
- List the following combinations of apples and trays: 2 trays of 3 apples; 4 trays of 5 apples; 3 trays of 6 apples. Have partners make two drawings to show each combination. One drawing should be a graphic depiction of the array; the other must show the same combination but be a more realistic drawing that looks like apples on a tray. Challenge them to then write a multiplication sentence that matches each array. On the whiteboard or chalkboard, demonstrate a graphic array that shows 3 trays with 4 apples on each, as shown:



- Display these ingredients for apple sauce:

6 apples
8 ounces of water
8 ounces of sugar
Servings: 6

Have students rewrite the list of ingredients for 3 servings and for 12 servings.

Practice Math

- Distribute to partners the reproducible, Picking Up Apples. Provide a number cube and have them play the game to practice multiplication and division.

Skills Index

Numbers and Operations

| Level | Title | P. | Skill/Concept |
|-------|------------------------------------|----|---|
| L | Growing a Business | 4 | Base Ten: Multiply and divide whole numbers; Solve real-life word problems |
| M | Wild and Weird Record Breakers | 6 | Base Ten: Multiply and divide whole numbers |
| N | Count Your Chickens | 8 | Fractions: Name fractional parts; Multiply a fraction by a whole number; Identify equivalent fractions |
| N | Pizza Party! | 10 | Develop an understanding of fractions; Identify fractional parts of a whole; Identify equivalent fractions; Compare fractions |
| O | Too Many Cooks | 14 | Identify fractional parts of a whole; Identify fractions on a number line; Understand decimal notations for fractions |
| O | Zoo Foods | 16 | Fractions: Solve problems involving adding and multiplying fractions; Understand decimal notations for fractions |
| P | Against the Clock | 18 | Understand decimal notations for fractions |
| Q | Bidding Battles | 24 | Base Ten: Use place value to read, write, and order whole numbers; Fractions: Use place value to read decimals |
| Q | The Biggest Fish | 26 | Base Ten: Use place value to compare numbers; Fractions: Solve word problems involving division of fractions |
| Q | Forest for the Trees | 28 | Base Ten: Add and subtract whole numbers; Fractions: Write fractions; Identify equivalent fractions |
| Q | A Tiling Tale | 30 | Fractions: Find one half of a whole number |
| Q | Weather Watch | 32 | Base Ten: Compare whole numbers |
| R | Number Patterns | 34 | Fractions: Read and write fractions; Find the percent of a number |
| R | Think Outside the Box | 36 | Base Ten: Round decimals; Use mental math strategies; Fractions: Estimate fractions |
| S | Costume Party: Cost and Confusion! | 40 | Base Ten: Solve problems involving money, cost, percent discounts, and sale price; Fractions: Find equivalent fractions, decimals, and percents |
| S | X-Treme Sports | 46 | Base Ten: Solve word problems involving whole numbers and decimals; Fractions: Find equivalent fractions to solve word problems |
| T | Money Matters | 48 | Base Ten: Divide whole numbers; Add and subtract decimals to hundredths; Fractions: Express fractions as decimals and money |
| T | Wild Waters: Facts and Stats | 50 | Fractions: Use place value to round numbers; Write numbers in millions in standard form and as decimals; Solve problems involving multiplication and division of decimals |
| U | Bridging the Gap | 52 | Base Ten: Solve word problems involving multiplication and division of whole numbers and decimals |
| V | Space Math | 58 | Base Ten: Round whole numbers and decimals; Solve whole-number and decimal problems; Use place value to write numbers to billions |

Operations and Algebraic Thinking

| Level | Title | P. | Skill/Concept |
|-------|--|----|---|
| M | Wild and Weird Record Breakers | 6 | Solve multiplication and division word problems about measurement |
| P | Dogs Can Fly | 20 | Solve problems involving multiplication and division |
| Q | Bidding Battles | 24 | Recognize number patterns |
| R | Number Patterns | 34 | Recognize and generate number and shape patterns |
| R | Think Outside the Box | 36 | Use estimation strategies; Solve multistep word problems |
| R | Tracking Trains | 38 | Write and evaluate numeric expressions; Identify and extend number patterns |
| U | Monster Crop Circles and Other Mysteries | 54 | Identify and extend number patterns; Recognize shape patterns |
| V | Nature's Numbers and Patterns | 56 | Recognize and extend patterns |

Measurement and Data Analysis

| Level | Title | P. | Skill/Concept |
|-------|--|----|--|
| Q | A Tiling Tale | 30 | Identify and classify two-dimensional figures based on sides and angles; Identify and classify angles |
| S | Symmetry Rules! | 42 | Identify lines of symmetry in two-dimensional figures; Identify lines of symmetry in real life; Recognize rotational and reflection symmetry; Classify polygons based on their properties |
| U | Monster Crop Circles and Other Mysteries | 54 | Classify two-dimensional shapes based on properties; Draw and identify angles; Identify parts of a circle; Explore area |
| V | Nature's Numbers and Patterns | 56 | Identify lines of symmetry in real life; Recognize rotational and reflection symmetry; Classify polygons based on their properties |
| W | Pyramids, Temples, and Tombs | 60 | Identify two- and three-dimensional figures; Categorize triangles according to side lengths; Identify right angles; Recognize the nets of three-dimensional figures; Reproduce drawings using coordinates on graph paper |
| W | Tiles and Tessellations | 62 | Recognize symmetry; Recognize and create tessellations; Identify shape patterns; Classify two-dimensional figures based on sides and angles |

Geometry

| Level | Title | P. | Skill/Concept |
|-------|--------------------------------|----|---|
| M | Wild and Weird Record Breakers | 6 | Solve problems involving measurement, including length and speed |
| N | Count Your Chickens | 8 | Solve word problems about money |
| O | Making a Big Change | 12 | Solve problems involving addition and subtraction of whole numbers and money amounts; Calculate change |
| O | Too Many Cooks | 14 | Solve problems involving liquid volumes |
| O | Zoo Foods | 16 | Solve problems involving measurement |
| P | Against the Clock | 18 | Solve problems involving units of time (seconds); Solve problems involving distance |
| P | Dogs Can Fly | 20 | Tell time to the nearest minute; Solve multistep word problems; Add and subtract time intervals; Calculate area when given lengths of sides |
| P | The Lions' Share | 22 | Solve problems using charts and graphs; Collect data using tally marks; Create bar graphs |
| Q | The Biggest Fish | 26 | Convert and solve problems involving mass; Solve word problem involving length; Solve word problems involving addition of money amounts; Create bar graphs to compare and show data; Read line graphs |
| Q | Forest for the Trees | 28 | Read and create bar graphs and pie charts |
| Q | A Tiling Tale | 30 | Understand and calculate area of a rectangle |
| Q | Weather Watch | 32 | Read bar graphs and pie charts |
| R | Number Patterns | 34 | Find areas of rectangles |
| R | Tracking Trains | 38 | Solve problems involving time and distance |
| S | Tracking Predators and Prey | 44 | Interpret graphs; Make and read diagrams and graphs; Recognize relationships in charts and graphs |
| S | X-Treme Sports | 46 | Solve word problems involving distance and time |
| T | Money Matters | 48 | Solve problems involving addition and subtraction of money amounts |
| V | Nature's Numbers and Patterns | 56 | Identify volume of a cube |
| V | Space Math | 58 | Convert distance and time units to solve multistep problems |
| W | Pyramids, Temples, and Tombs | 60 | Find volume of a regular prism |