

Reader Summaries

My Store in the Mall and Grandpa's Birthday Present

My Store in the Mall (lesson on pages 36–40)

Understanding Percents

Reading Level 4.9

This reader explains the basics of percents in the context of business. In this reader, students are introduced to a storeowner and the important role that percentages play in running her business. Students learn that percentages help organize the layout of the store as well as help to maintain inventory. Students will also learn how percentages relate to the concepts of e-commerce and the stock market. Under the thematic organization of this reader, students will learn to use percentages to manage sales, create budgets, and price merchandise.

Grandpa's Birthday Present (lesson on pages 41–45)

Understanding Percents

Reading Level 4.3

This reader focuses on a young boy who has been saving his money to buy his grandfather a birthday present. By saving his allowance, he hopes to buy the perfect gift. The boy uses his knowledge of percentages to determine if he has enough money for each potential gift. Throughout the story, relevant word problems give students many opportunities to calculate percentages on their own. Other topics addressed in this reader include budgets, estimation, and managing and saving money. In the end, the boy's knowledge of percent calculations helps him determine which gift he can afford to buy for his grandfather. While looking for Grandfather's gift, students are introduced to specific strategies that help them understand when and how to calculate percentages.

Reader Summaries *(cont.)*

Night Skies and It Started with Pizza

Night Skies (lesson on pages 60–64)

Variables, Expressions, and Equations

Reading Level 5.7

In this reader, students learn how to create equations while traveling through our solar system. Students will read about the different planets and what makes each one unique. As students continue learning about the night skies, they are also introduced to important vocabulary related to equations. Specifically, students will learn how variables and expressions are used to formulate mathematical equations. They are also provided with various opportunities to create their own equations while on their journey through space.

It Started with Pizza (lesson on pages 65–69)

Variables, Expressions, and Equations

Reading Level 4.3

In this reader, students are introduced to mathematical equations. The reader focuses on the components of these equations and teaches students how to create their own equations to answer any mathematical questions they have. Students will see how they can apply mathematical equations to food measurements, the human body, and even outer space! They also learn to use important vocabulary found in mathematical equations. Each new scenario provides an opportunity to create equations and teaches students that mathematical concepts can be applied to everyday life.

Reader Summaries *(cont.)*

The Winning Angle and Basketball Angles

The Winning Angle (lesson on pages 84–88)

Understanding Angles

Reading Level 4.6

This reader focuses on angles in sports. The reader covers the games of pool, basketball, baseball, and soccer to show that angles are present when playing all of these sports. While students learn how to play these sports, they also learn how angles can help them improve their skills. The text also explains how angles are important on the playing field. Colorful pictures and diagrams of baseball diamonds and basketball courts illustrate all of the important angles that shape the perfect playing field. Students also learn the different types of angles, along with how to identify and distinguish one from another. In the context of sports, students familiarize themselves with angles in the world around them.

Basketball Angles (lesson on pages 89–93)

Understanding Angles

Reading Level 4.4

This reader introduces students to angles through the fast-paced sport of basketball. While students are learning about different types of angles, they also explore where these angles exist in basketball strategies. Various diagrams help students learn the specific vocabulary associated with angles. Students will see how angles are present in dribbling, shooting, passing, and rebounding the ball. Students will even learn how predicting angles can help them become better players! Through exciting situational context, this reader helps familiarize students with recognizing angles.

Reader Summaries (cont.)

Ocean Maps and Shipwreck Detectives

Ocean Maps (lesson on pages 108–112)

Coordinate Planes

Reading Level 5.9

This reader introduces students to the concepts surrounding coordinate planes through the use of ocean maps. It provides background on ocean maps and the history of early navigation. As the reader progresses, students explore geography under the sea, as well as important vocabulary and the current practices of navigation. Specifically, students are introduced to the variety of ways the ocean can be mapped: sonar, submersibles, and satellites. Detailed diagrams are provided for student engagement as they learn to identify coordinates and even create their own coordinate planes.

Shipwreck Detectives (lesson on pages 113–117)

Coordinate Planes

Reading Level 5.0

This reader gives information about coordinate planes by exploring shipwrecks deep on the ocean floor. The reader focuses on some of the most famous shipwrecks, including the *Titanic*. It even addresses shipwreck mysteries and takes students to shipwrecks found in the Great Lakes! Practicing coordinate knowledge, students learn how different marine technology aids in the exploration and study of shipwrecks. Specifically, students learn how GPS, sonar, and satellites can help map out where a shipwreck is located, while SCUBA allows the researchers to do hands-on exploration. This reader provides students with sea charts where they learn to identify coordinates, locate shipwrecks, and even draw their own shipwrecks on a map. The reader provides an exciting way to help students understand the concepts of coordinate planes and the fun ways they can be used.

Reader Summaries *(cont.)*

Towns and Cities and Amusement Parks

Towns and Cities *(lesson on pages 132–136)*

Perimeter and Area

Reading Level 5.1

This reader focuses on measuring perimeter and area. Students will learn how perimeter and area are used to design the plans for a city or town. Students will learn that perimeter and area are also used to design public recreation centers such as parks, swimming pools, and tennis courts. As the reader progresses, students will be introduced to regular shapes in the layout of suburban homes and irregular shapes in the construction of landscaping these homes. Perimeter and area are also used to determine the amount of building materials necessary to create a town or city. This reader gives students the opportunity to develop their own neighborhood plans, familiarizing them with when and how to best use perimeter and area formulas.

Amusement Parks *(lesson on pages 137–141)*

Perimeter and Area

Reading Level 4.6

This reader introduces students to the concepts of perimeter and area through the excitement of amusement parks. This book provides information about the history of amusement parks and also explores some of the most thrilling roller coasters around the world! As the reader progresses, students will understand how measuring the perimeter and area helps in the planning and construction of amusement parks. The text also explains how these measurements are used to ensure both fun and safety for all the guests. Using clearly labeled diagrams, students will practice finding the perimeter and area of regular and irregular shapes.

Reader Summaries *(cont.)*

At the Aquarium and Hot Air Balloons

At the Aquarium (lesson on pages 156–160)

Volume

Reading Level 5.9

This reader is designed to help students understand the measurement of volume. It gives the students a behind-the-scenes look at how an aquarium functions. As they discover and learn about different kinds of marine life, students will also study the shapes and sizes of tanks as well as how much water is needed to fill them. They will also learn about measuring volume by weighing the animals and determining how much food they need to eat. Captivating photographs lead students through the book, while descriptive diagrams help students understand why measuring volume is important. As students read about diverse marine life, they are also given multiple opportunities to practice measuring volume.

Hot Air Balloons (lesson on pages 161–165)

Volume

Reading Level 4.8

This reader focuses on the properties of volume in relation to hot air balloons. Students learn how to calculate the volume of the basket as well as the balloon itself. While students learn about volume, they will also read about the mechanics of hot air balloons. Sample problems and diagrams help students learn the correct way to calculate volume. As students progress through the reader, they will even learn to determine how much weight a hot air balloon can carry. This reader helps students better understand the concept of volume and its real-world applications.

Reader Summaries *(cont.)*

CSI and The Jungle Park Case

CSI (lesson on pages 180–184)

Analyzing Data

Reading Level 5.9

Throughout this reader, students experience the mystery and intrigue of crime scene investigation. The reader focuses on different types of data that investigators collect to solve a case. Students will examine fingerprints, blood type, DNA, and lie detectors. They also have the opportunity to practice critical-thinking strategies that will help them analyze this data. Specifically, students use the 5 Ws and H (who, what, when, where, why, and how) to begin analyzing the data. Colorful graphs and charts provide visuals that show students effective ways to interpret the evidence. The exciting world of forensic science helps students organize and apply the concepts of data analysis.

The Jungle Park Case (lesson on pages 185–189)

Analyzing Data

Reading Level 4.3

In this reader, three children become crime scene investigators when pieces of their favorite playground begin to disappear. The story follows the children in their investigation as they analyze fingerprints, footprints, and tire tracks. They even conduct some interviews with eyewitnesses and specialists! After carefully analyzing all of the data, the investigation leads the children to the culprit. This reader provides colorful graphs and tables that will help students practice appropriate and efficient ways to analyze data. Students will enjoy collecting and analyzing the evidence that will help them solve the Jungle Park case!

Reader Summaries *(cont.)*

Graphs in Action and It's Our Business

Graphs in Action (lesson on pages 204–208)

Graphing
Reading Level 5.9

This reader introduces students to different types of graphs and their practical applications. The reader shows how the same information can be displayed in different types of graphs. Students learn how to create bar graphs, line graphs, pictographs, and circle graphs. As the reader progresses, students learn how to label the x - and y -axes and are given various opportunities to create their own graphs. The text also explains how graphs are used to record business growth and productivity. The reader provides clearly labeled graphs to help students visually organize information and begin to use graphs as a new medium for information.

It's Our Business (lesson on pages 209–213)

Graphing
Reading Level 4.0

This reader focuses on the importance of using graphs in a business setting. In this reader, a boy named Alex and his friends start a business that helps people care for their animals. The kids use graphs to record information about their business and see where they can make improvements. Some graphs are used to show which jobs make the most money, while others show how much money is spent on supplies. As the reader progresses, students become more familiar with how graphs are useful. Students are exposed to the concepts of how a business works, and at the same time, learn how to create graphs and surveys to develop this business. The reader shows how these graphs can be used to establish and maintain a successful business.