

# Introduction

*Mathematics 6* is built on the thesis that most children can learn, understand, and master mathematical concepts. It seeks to relate math to everyday life and to make it practical. We believe that mathematics should help students achieve the ultimate goal of loving, serving, and glorifying God.

*Mathematics 6* introduces concepts in incremental steps, allowing the student to master each increment of a skill before advancing to the next step, meeting several simple concepts simultaneously. Each increment easily becomes a part of his “big picture,” not only because it is small, but also because it fits with what he has already learned.

Students retain what they have learned by consistent, systematic review. *Mathematics 6* uses a system of continuous review. Instead of a grand review at the end of the year, a large part of every day’s work is review. The goal is mastery, not just exposure.

## Materials

### Student

- › **Mathematics 6 Textbook**
- › **Student Packet**
  - Worksheets
  - Tests
  - Quizzes
  - Speed/Mastery Drills

### Teacher

- › **Mathematics 6 Teacher’s Guide**
  - Resource CD
- › **Full Solution Answer Key**

## Unit 1



## Contents



<b>Lesson 1</b> .....	<b>2</b>	<b>Lesson 9</b> .....	<b>24</b>
Place Value in Whole Numbers and Decimals; Understanding Fraction Terms		Translating Addition and Subtraction Terms	
<b>Lesson 2</b> .....	<b>5</b>	<b>Lesson 10</b> .....	<b>27</b>
Adding and Subtracting Fractions		Quiz 2	
<b>Lesson 3</b> .....	<b>8</b>	<b>Lesson 11</b> .....	<b>28</b>
Dividing by a One-Digit Divisor; Checking Math Computation		Solving Addition and Subtraction Word Problems	
<b>Lesson 4</b> .....	<b>11</b>	<b>Lesson 12</b> .....	<b>31</b>
Understanding Decimals		Converting From Fractions to Decimals to Percents	
<b>Lesson 5</b> .....	<b>14</b>	<b>Lesson 13</b> .....	<b>34</b>
Quiz 1		Measuring Angles	
<b>Lesson 6</b> .....	<b>15</b>	<b>Lesson 14</b> .....	<b>37</b>
Decimal Computation		Finding LCM and LCD	
<b>Lesson 7</b> .....	<b>18</b>	<b>Lesson 15</b> .....	<b>40</b>
Simplifying Expressions		Memorizing Measurement Units of Capacity	
<b>Lesson 8</b> .....	<b>21</b>	<b>Lesson 16</b> .....	<b>43</b>
Naming and Classifying Angles		Test 1	



## Student Materials

### Textbook

*Mathematics 6* is a non-consumable text, designed to be reused year after year. Students write their answers on separate paper. For teacher ease in grading, set up a form for students to follow. Show them in the first math class of the year how you expect them to number their papers. Tell them whether you want their work to be done in spiral-bound notebooks or on notebook paper. *Appendix C* page 475 contains suggestions and samples for ways to have students set up their work pages.

*Mathematics 6* is divided into 10 units with 16 lessons each. Lessons 1-4, 6-9, and 11-15 are daily lessons. Lessons 5 and 10 are quiz lessons, and Lesson 16 is the test lesson.



# Unit 2

## Lesson 1 ..... 46

Adding and Subtracting  
Fractions With Unlike  
Denominators

## Lesson 2 ..... 49

Annexing Decimal Places  
to Complete Division;  
Understanding Exponents

## Lesson 3 ..... 52

Combining Integers

## Lesson 4 ..... 55

Squares and Square Roots

## Lesson 5 ..... 58

Quiz 1

## Lesson 6 ..... 59

Multiplying Fractions

## Lesson 7 ..... 62

Solving and Checking Equations

## Lesson 8 ..... 65

Multiplying  
Whole Numbers,  
Mixed Numbers,  
and Fractions

## Lesson 9 ..... 68

Translating  
Multiplication and  
Division Terms

## Lesson 10 ..... 71

Quiz 2

## Lesson 11 ..... 72

Solving Multiplication  
and Division Word Problems

## Lesson 12 ..... 75

Finding Perimeter and  
Area of Polygons

## Lesson 13 ..... 78

Choosing Suitable Graphs

## Lesson 14 ..... 81

Dividing by a Two-Digit Divisor



## Lesson 15 ..... 84

Drawing Angles

## Lesson 16 ..... 87

Test 2



## Teaching Boxes

Daily lessons begin with at least one framed and colored teaching box that introduces and explains one or more mathematics increments. A few lesson exercises follow each teaching box to reinforce the new material.

## We Remember

The *We Remember* section systematically reviews concepts taught in earlier lessons. The first exercises in *We Remember* review material from the previous day. The final exercises in *We Remember* review the concept taught in this lesson.

**20.** Below each bold black exercise number is at least one small, gray *reference number*. The reference number indicates the textbook page where the concept reviewed in this exercise was taught.

## Sharpening Your Skills

Math skills must be continually sharpened.

The *Sharpening Your Skills* section in each lesson hones those skills day by day. These exercises include *Computation*, *Fact Focus*, and *Mental Math* sections. Exercises in *Sharpening Your Skills* do not have reference numbers.

## Computation

Math problems that require computing addition, subtraction, multiplication, and division appear in this section. Students copy and work the problems. Instructions in gray give specific direction for dividing, rounding quotients, and writing remainders. These instructions refer only to computation exercises.

## Unit Themes

The introduction to each unit features a different theme relating to math through the ages.

Unit 1—*Introduction to Math in History*

Unit 2—*Math in Economics and Computing*

Unit 3—*Math in Physical Science*

Unit 4—*Ancient Mathematicians*

Unit 5—*Math in Navigation*

Unit 6—*Geometry and Algebra from the Past*

Unit 7—*Math From Minute to Enormous*

Unit 8—*Of Men and Towers*

Unit 9—*Math and Measurement*

Unit 10—*Math and Astronomy*



## Fact Focus

Some lessons include reviews of simple facts. Students write only the answers without copying the problem. *Fact Focus* may include multiplication and division facts and measurement equivalents.

## Mental Math

Students solve the exercises mentally and write only the answers on their papers.

## Quiz or Unit Test

After a concept has been reviewed for five lessons, it may appear on any quiz or test.

## Fascinating Discoveries

Quiz and test lessons include one or two optional enrichment activities to expose students to new concepts. *Fascinating Discoveries* activities are neither reviewed nor tested.

## Textbook Graphics



### We Remember

*We Remember*—The daily review section continuously reviews skills and concepts.



### Sharpening Your Skills

*Sharpening Your Skills*—Computation, Fact Focus, and Mental Math.

Informative *nuggets* in the lessons often relate to the unit's theme. These photographs with their accompanying tidbits of information may generate additional discussion and/or research. Measurements in nuggets are often rounded to whole units such as inches, feet, yards, miles, meters, and kilometers.

# Unit 3



### Lesson 1 ..... 90

Revising an Estimate With  
a Two-Digit Divisor

### Lesson 2 ..... 93

Rule for Combining Integers  
When the Signs Are the Same

### Lesson 3 ..... 96

Rounding Whole Numbers  
and Decimals

### Lesson 4 ..... 99

Classifying Triangles  
by Length of Sides

### Lesson 5 ..... 102

Quiz 1

### Lesson 6 ..... 103

Rule for Combining Integers  
When the Signs Are Different

### Lesson 7 ..... 106

Writing Ratios and  
Solving Proportions

### Lesson 8 ..... 109

Identifying Parts of a Circle

### Lesson 9 ..... 112

Common  
Ways to Show  
Multiplication;  
Canceling  
Zeros to Divide

### Lesson 10 ..... 115

Quiz 2

### Lesson 11 ..... 116

Drawing Pictures to  
Solve Word Problems

### Lesson 12 ..... 119

Canceling to Multiply More  
Than Two Fractions

### Lesson 13 ..... 122

Common Ways of Showing  
Multiplication to Simplify  
Expressions

### Lesson 14 ..... 125

Canceling Twice to  
Multiply Fractions;  
Finding the Average

### Lesson 15 ..... 128

Naming Periods  
of Time

### Lesson 16 ..... 131

Test 3



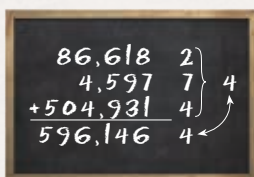
## Glossary, Reference Charts, Index

Students can work more independently when they are able to look up information as needed. The *Glossary*, *Reference Charts*, and *Index* are tools to help them achieve this goal. The *Glossary* defines terms used throughout the course. When new terms are used in textbook lessons, they are in **bold** print. The *Reference Charts* provide definitions, diagrams, equivalent measures, geometry, formulas, and abbreviations. The *Index* contains topics under various headings and the page number where they can be found.

# Unit 4

<b>Lesson 1</b> .....	134
Dividing by a Three-Digit Divisor	
<b>Lesson 2</b> .....	137
Finding a Fraction of a Number Mentally	

<b>Lesson 3</b> .....	140
Revising an Estimate With a Three-Digit Divisor	



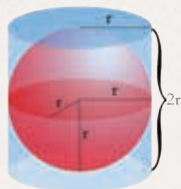
<b>Lesson 4</b> .....	143
Writing Ratios as Percents	

<b>Lesson 5</b> .....	146
Quiz 1	

<b>Lesson 6</b> .....	147
Simplifying Expressions by Substituting Variables With Numbers	

<b>Lesson 7</b> .....	150
Finding Reciprocals and Dividing Fractions	

<b>Lesson 8</b> .....	153
Finding the Circumference With Fractions	



<b>Lesson 9</b> .....	156
Identifying Prime and Composite Numbers	

<b>Lesson 10</b> .....	159
Quiz 2	

<b>Lesson 11</b> .....	160
Solving Two-Step Word Problems	

<b>Lesson 12</b> .....	163
The Sum of Angles Formed by Intersecting Lines	

<b>Lesson 13</b> .....	166
Common Ways to Show Division	

<b>Lesson 14</b> .....	169
Finding a Percent of a Number	

<b>Lesson 15</b> .....	172
Multiplying and Dividing by Moving the Decimal Point	

<b>Lesson 16</b> .....	175
Test 4	



## Tests and Quizzes

Tests and quizzes are designed for the student to write on. Each test is on a larger folded sheet with a cover and three working pages. Each quiz is on one two-sided sheet. Distribute quizzes in Lessons 5 and 10 and tests in Lesson 16 of each unit. Separate, collate, and file the quizzes by quiz and test number or store them in the booklet and separate as needed.

## Speed/Mastery Drills

Speed Drills with division have 30 facts; drills with addition, subtraction, and multiplication have 24 facts. Unit 1 has 13 Speed Drills. Quiz and Test lessons have no drills.

Mastery Drills review measurement equivalents, geometry facts, formulas, fraction and decimal equivalents, squares and square roots, metric prefixes, and the percent proportion. Most Mastery Drills include six addition, subtraction, multiplication, or division facts at the end of the drill. Units 2-10 each

## Student Packet

The *Student Packet* contains worksheets, tests, quizzes, and Speed/Mastery Drills used throughout the course. These pages are designed for the student to write on. Separate the pages from the packet and file them for easy retrieval when needed, or store them as packets and separate when needed.

## Worksheets

Worksheets contain graph forms, grids for plotting and naming points, geometric solids nets, and bank slips. They also include work space for *Fascinating Discoveries* Unit 5, Lesson 16 and Unit 9, Lesson 5.

have 13 Mastery Drills. Quiz and Test lessons have no drills.

Distribute drills at the beginning of each math class. Speed Drills—students complete as many facts as possible in one minute. Mastery Drills—students complete without being timed. Until they master the information, they may look up answers on the *Math Reference Charts*.

---

---

---

---

---

---

---

---



# Teacher Materials

## Teacher's Guide

The goal of *Mathematics 6 Teacher's Guide* is to enable teachers of all levels of experience to successfully teach this course. The *Teacher's Guide* includes replicas of each student page with answers, complete lesson plans for each lesson, additional resources in the Appendixes, and a *Resource CD* with posters and practice sheets for teaching the lessons.

### Discussion Points

Each unit begins with a list of questions and suggestions to help generate discussion about the unit theme on the next page. Use and/or adapt as time and interest allows.

### Reflect—Units 2-10

Before beginning each unit, you may take some time to reflect on the material in the previous unit. Use this list of questions or come up with your own.

### Assess

At the beginning of a unit is a good time to assess students' math skills. Use this list as a reminder of items to randomly check. Add your own as needed.

### Research Challenge

Contains a list of nugget titles in the unit and the page number where each is located. Students who finish early and need an extra challenge may use information from any of the nuggets to generate ideas for further research.

## Unit 5



**Lesson 1** ..... 178  
Rounding Decimal Quotients

**Lesson 2** ..... 181  
Finding Prime Factors  
Using Factor Trees

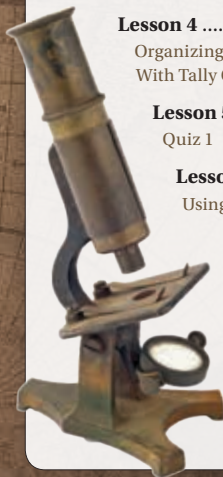


**Lesson 3** ..... 184  
The Identity, Commutative,  
and Zero Properties

**Lesson 4** ..... 187  
Organizing Information  
With Tally Charts

**Lesson 5** ..... 190  
Quiz 1

**Lesson 6** ..... 191  
Using Short and Upside-  
Down Division



**Lesson 7** ..... 194  
Identifying Quadrilaterals

**Lesson 8** ..... 197  
Dividing to Convert Fractions  
to Decimals and Percents

**Lesson 9** ..... 200  
Writing Equations From Words

**Lesson 10** ..... 203  
Quiz 2



**Lesson 11** ..... 204  
Solving Word Problems  
Using Proportions

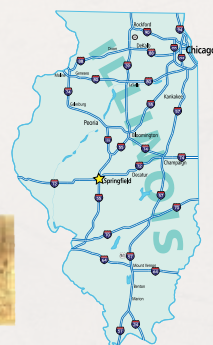
**Lesson 12** ..... 207  
The Sum of Angles Formed  
by Quadrilaterals and Triangles

**Lesson 13** ..... 210  
Using Tally Charts to Make  
Pictographs; Canceling  
Zeros to Reduce Fractions

**Lesson 14** ..... 213  
Finding Discounts  
and Sale Prices

**Lesson 15** ..... 216  
Converting  
Metric Units

**Lesson 16** ..... 219  
Test 5



### Unit Material, Terms, and Symbols

The concepts taught in the unit are categorized by addition, subtraction, geometry, measures, word problems, etc. In the sidebar are terms and symbols used in the unit. Use these lists as reference, to preview the unit, or to review at the end of the unit.

### Student Page

A replica of the textbook page appears on each corresponding *Teacher's Guide* page. Answers are red. Where answers do not fit on the page, a note tells the appendix page where the answer is given. Solutions are shown in detail in the *Full Solution Answer Key*.

# Unit 6



## Lesson 1 ..... 222

Repeating Decimals

## Lesson 2 ..... 225

Finding the Area of a Circle

## Lesson 3 ..... 228

Finding Prime Factors  
Using Division

## Lesson 4 ..... 231

Naming and Plotting  
Points on a Grid

## Lesson 5 ..... 234

Quiz 1

## Lesson 6 ..... 235

Converting Decimals and  
Percents to Fractions

## Lesson 7 ..... 238

Using Proportions to  
Convert U.S. Measures

## Lesson 8 ..... 241

Computing Sales Tax

## Lesson 9 ..... 244

Finding Distance  
Using the Formula

## Lesson 10 ..... 247

Quiz 2

## Lesson 11 ..... 248

Solving Word Problems  
With Remainders

## Lesson 12 ..... 251

Writing Negative Integers;  
Classifying Triangles  
by Their Angles

## Lesson 13 ..... 254

Reading Circle Graphs

## Lesson 14 ..... 257

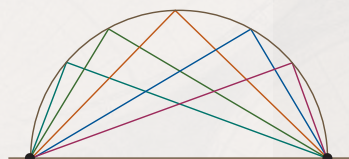
Combining More Than  
Two Integers

## Lesson 15 ..... 260

Reading Tables

## Lesson 16 ..... 263

Test 6



### Math Reference Charts.

Decide if students will trade drills for grading, grade their own, or hand them in for teacher grading. Drill exercises and answers are in the *Teacher's Guide* in the sidebar of the final page of each lesson. If several students are not doing well on drills, occasionally skip a day's drill and spend extra time practicing the facts on the skipped drill. Students who need extra practice may be assigned to work the drill at another time—possibly as homework.

### ► Review

Each lesson contains a short review of concepts taught in the previous lesson. Answers are **plum**. Review briefly before teaching the lesson.


### ► Teach

Names the new concept(s) that will be taught in the lesson.

### ► Assign

This is a list of the sections of student exercises in daily lessons or the quiz or test to be administered in the quiz and test lessons.

## Materials Needed

Check here for a list of materials needed for the day's lesson. The Speed/Mastery Drill listed is the same as the lesson number. Worksheets are at the top of the Student Packet. Posters and practice sheets are on the *Resource CD* and are indicated in this list by a CD icon  and a poster or practice sheet number.

## Lesson Overview

### ► Speed/Mastery Drill

Distribute the drills. For Speed Drills, give students one minute to complete as many facts as possible. Mastery Drills do not need to be timed. If students do not know a Mastery Drill answer, they may look it up on the

## Teaching the Lesson

### ► Daily Lessons

Refer to the colored teaching box and to this section for teaching each part of the lesson. Text in this section is intended to enhance and further explain without merely repeating material from the textbook. Familiarize yourself with both the teaching box and *Teaching the Lesson*. In the *Teacher's Guide* new terms are ***bold italic***. Board exercises are **bold**, and the answers are **plum**. Write board exercises on the board before class or as the lesson is taught. Work the examples as directed and call on students to work the remaining examples.



## ► Quiz and Test Lessons

Use the exercises in the *Review* section to prepare students for problems they have not yet encountered on a quiz or test.

Administer the quiz or test. Have students clear their desks except for pencils, erasers, and any other needed tools (protractor, ruler, etc.). Distribute the quiz or test and give students time to complete it. If you have allowed a specific amount of time for the test, inform students how much time they will be given. Solutions and answers are **red** on the student page in the *Teacher's Guide*.

Assign the optional activity *Fascinating Discoveries* on the student page. This is intended to be enjoyed by students who finish the quiz or test before class time is over. For variation, these activities may be worked together as a class.

## Assign Class Work

### ► Lesson Alert

Exercises that may need special attention are noted here. Extra lines provide a place for additional alerts.

### ► Assign the lesson exercises

Assign the exercises following the teaching box(es) after teaching the lesson and before *We Remember*. If students do not understand part or all of the lesson, consider working these exercises together in class.

### ► Assign *We Remember* and *Sharpening Your Skills*

After teaching the lesson and completing the accompanying lesson exercises, assign *We Remember* and *Sharpening Your Skills*. Students should be able to complete these exercises independently. Any exercises not completed in class time should be completed before the next day's class.

Decide whether a struggling student must work every

computation exercise. If multiple problems review the same operation, you may allow him to work one problem. If he works that problem correctly, he may skip the others.

## Extra Practice

The *Extra Practice* list provides additional examples to review the concept(s) taught in the lesson. Answers are **plum**.

## Fascinating Discoveries

One or more *Fascinating Discoveries* activity appears in each quiz and test lesson. Any additional explanation or discussion relating to the *Fascinating Discoveries* activity in this lesson is included here.

# Unit 7



### Lesson 1 ..... 266

Using the Percent Proportion

### Lesson 2 ..... 269

Dividing a Larger Dividend by a Three-Digit Divisor

### Lesson 3 ..... 272

Simplifying Expressions by Combining Like Terms

### Lesson 4 ..... 275

Converting to Mixed Units of Measure

### Lesson 5 ..... 278

Quiz 1

### Lesson 6 ..... 279

Introducing Calculators

### Lesson 7 ..... 282

Finding the Perimeter of a Parallelogram

### Lesson 8 ..... 285

Converting Mixed Numbers to Percents

### Lesson 9 ..... 288

Time Zones



### Lesson 10 ..... 291

Quiz 2

### Lesson 11 ..... 292

Rounding Decimal Quotients in Word Problems

### Lesson 12 ..... 295

Dividing by a Decimal

### Lesson 13 ..... 298

Reading Pictographs With Large Numbers

### Lesson 14 ..... 301

Converting to Square Units

### Lesson 15 ..... 304

Standard Time and Daylight Saving Time

### Lesson 16 ..... 307

Test 7

# Unit 8

## Lesson 1 ..... 310

Adding and Subtracting  
Mixed Units of Measure

## Lesson 2 ..... 313

Identifying Parts of a Solid;  
Using a Compass to Draw Circles

## Lesson 3 ..... 316

Finding Unit Rates  
Using Proportions

## Lesson 4 ..... 319

Using Dates to  
Determine Age

## Lesson 5 ..... 322

Quiz 1

## Lesson 6 ..... 323

Multiplying Mixed  
Units of Measure

## Lesson 7 ..... 326

Dividing to Solve Equations

## Lesson 8 ..... 329

Formula for Finding the Volume  
of a Rectangular Prism



## Lesson 9 ..... 332

Converting to Cubic Units

## Lesson 10 ..... 335

Quiz 2

## Lesson 11 ..... 336

Multiplying Fractions  
in Word Problems

## Lesson 12 ..... 339

Using the Shortcut to  
Calculate Discount  
and Sale Prices

## Lesson 13 ..... 342

Drawing Line Graphs

## Lesson 14 ..... 345

Finding Missing  
Dimensions: Area  
of a Rectangle

## Lesson 15 ..... 348

Using a Calculator  
to Change Fractions  
to Decimals

## Lesson 16 ..... 351

Test 8



## Speed/Mastery Drill

The sidebar on the third page of each lesson contains a list of all the exercises and answers from that lesson's Speed/Mastery Drill.

## Teaching Tips

### Teaching Tip

Additional teaching tips are scattered throughout the *Teacher's Guide* on yellow sticky notes. Use these tips as you see fit.

Additional teaching tips are scattered throughout the

*Teacher's Guide* on yellow sticky notes. Use these tips as you see fit—if they help and if time allows.

## Appendixes A-D

*Appendix A* consists of the textbook glossary, reference charts, and index. *Appendix B* has games, activities, strategies, and skills to supplement the *Teacher's Guide*. *Appendix C* contains student answers that do not fit on the student pages in the *Teacher's Guide* and samples of student page setups. *Appendix D* supplies a list of the material on the *Resource CD*, and a list of teaching resources (books, manipulatives, and websites).

## Student Helps

*Student Helps* in the sidebars include tips, explanations, shortcuts, practice, games, etc. that may help students better understand the material taught in the lesson.

### ► Thinking It Through and Digging Deeper

Provide additional information related to the lesson. It may be another way to think about the concept or solve the exercises.

### ► Practical Problems

Give examples of ways the concept may be put into practice outside the classroom.

## Resource CD

The *Resource CD* is inside the back cover of the *Teacher's Guide*. It contains posters and practice sheets for use in teaching and reviewing daily lessons. Print and file the posters and practice sheets ahead of time or print them as needed. Laminate the posters to make them sturdier and reusable for write on/wipe off activities. Print practice sheets as needed for each student.

The first page on the CD lists the contents with interactive links. Click on the poster name or number to be taken directly to that poster. The *Teacher's Guide Appendix D* pages 482-483 contains a list of the materials on the CD.



Full Solution Answer Key

The Full Solution Answer Key provides answers to all Mathematics 6 exercises and, where applicable, detailed solutions. Final answers are black. Where answers have solutions, the exercise copied from the textbook is plum, and the solution is gray.

Grading

Daily Lessons

Answers are red on the Teacher's Guide student page. Answers that do not fit can be found in Appendix C pages 476-481. For best results, grade student papers as soon as possible. To check students' worked solutions, see the Full Solution Answer Key. Record the scores and return papers to students so they can learn from any wrong answers. If students consistently miss specific types of problems, spend extra time with review or other remedial material.

Speed/Mastery Drills

Speed/Mastery Drill problems with answers are in the Teacher's Guide in the sidebar of the final page of each lesson. Drill answers are also in the Full Solution Answer Key.

Quizzes and Tests

Quiz and test answers and solutions are red on the replicated quiz and test pages in the Teacher's Guide. Quiz and test answers and solutions are also in the Full Solution Answer Key. Each quiz and test has a total of 100 points. Direction lines indicate how many points each problem is worth. Count the number of points missed and subtract from 100 to find the score.

Analyze student quizzes and tests. Several students missing the same problems may indicate a teaching weakness in that area. Revisit the areas and make sure students understand the concept. Plan extra class review to strengthen the concept. A student who repeatedly misses the same type of problem may need remedial help.

Unit 9



Lesson 1 ..... 354  
Adding Hours and Minutes to a Time of Day;  
The Distributive Property

Lesson 2 ..... 357  
Dividing to Solve Two-Step Equations

Lesson 3 ..... 360  
Formula for Finding the Area of a Parallelogram

Lesson 4 ..... 363  
Calculating Tithes and Offerings

Lesson 5 ..... 366  
Quiz 1

Lesson 6 ..... 367  
The Distributive Property With Variables

Lesson 7 ..... 370  
Using the Shortcut to Calculate Sales Tax

Lesson 8 ..... 373  
Converting Mixed Measures to One Unit;  
Using Terms to Describe Recurring Events

Lesson 9 ..... 376  
Savings Accounts

Lesson 10 ..... 379  
Quiz 2

Lesson 11 ..... 380  
Dividing Fractions in Word Problems

Lesson 12 ..... 383  
Finding Missing Dimensions: Perimeter of a Parallelogram

Lesson 13 ..... 386  
Drawing Bar Graphs

Lesson 14 ..... 389  
Making Schedules to Meet Appointments; Using a Calculator to Find a Fraction of a Number

Lesson 15 ..... 392  
Infinite and Finite Sets of Numbers

Lesson 16 ..... 395  
Test 9



# Unit 10



## Lesson 1 ..... 398

The Associative  
Property of  
Addition and  
Multiplication

## Lesson 2 ..... 401

Calculating Simple  
Interest on Savings  
Accounts and Loans

## Lesson 3 ..... 404

Using Place Value to  
Expand Numbers

## Lesson 4 ..... 407

Counting Weeks

## Lesson 5 ..... 410

Quiz 1

## Lesson 6 ..... 411

Changing Amounts  
on a Recipe

## Lesson 7 ..... 414

Using Decimal Equivalents to  
Compare Fractions; Lines of  
Symmetry



## Lesson 8 ..... 417

Buying From a Menu

## Lesson 9 ..... 420

Using a Budget

## Lesson 10 ..... 423

Quiz 2

## Lesson 11 ..... 424

Comparing  
Unit Prices



## Lesson 12 ..... 427

Scale Drawings

## Lesson 13 ..... 430

Reading Double Bar Graphs

## Lesson 14 ..... 433

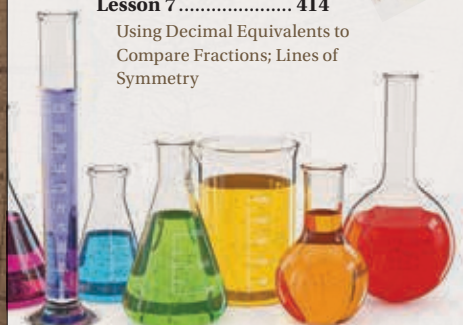
Map Scales

## Lesson 15 ..... 436

Organizing and Solving Word  
Problems Using Charts; Why  
We Don't Divide by Zero

## Lesson 16 ..... 439

Test 10



## Glossary ..... 440

## Reference Charts ..... 447

## Index ..... 451

## Credits ..... 469