



Third Edition

Teacher's Edition

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Teacher's Toolkit CD

End User License Agreement
Teacher Information
Printing Instructions
Bulletin Board Art
Enrichment
Extended Activities
Fact Reviews
Instructional Aids
ReTeaching
REVIEWS Answer Key
Teacher's Visual Packet (reduced size for use with individual student or small groups of students)

Sample Lesson

Objectives point out the skills to teach in the lesson.

The correlated Worktext pages and Reviews pages are listed at the top of each lesson.

Encourage the student's understanding of math by asking questions (interactive inductive teaching) and promoting critical thinking.

Materials list items to collect or prepare ahead of time.

Notes contain helpful information for the teacher. They include the location of the Enrichment pages and ReTeaching pages on the Teacher's Toolkit CD.

Practice and Review provides activities for practicing skills—such as counting and fact memorization—and for reviewing concepts.

Lesson 18

Worktext
pages 41–42

Correlated Math Reviews
pages 35–36

Objectives

- Rename 10 ones as 1 ten and 10 tens as 1 hundred
- Add 2- and 3-digit numbers, renaming 10 ones as 1 ten or 10 tens as 1 hundred

Teacher Materials

- Place Value Mat
- Fact Family Flashcards: 1-8-9, 5-5-10, and previously memorized fact families
- Function Table transparency, page 1A1b (CD)

Student Materials

- Place Value Mat
- Place Value Kit

Notes

When demonstrating the solving of problems, you may choose to have the students solve some of the problems on paper.

Preview the ReTeaching pages 14–22 and the Enrichment pages 23–25 located on the Teacher's Toolkit CD.

Practice and Review

Adding 10, adding 9, count on 2

1. Review adding 10 to a 2-digit number.
2. Review the adding 9 strategy and apply it to 2-digit numbers.
3. Display the Function Table transparency.
 - What do we need to do to complete this table? *add 12*
 Display 12 ones. Slit it from the students that 12 ones is renamed as 1 ten and 2 ones and that they can add 12 by adding 10 and then counting on 2.
4. Call attention to 36 in the Function table.
 - What is $36 + 107$? *46*. *count on 27* *48*. *What is $36 + 127$?* *48*
 Choose a student to write the answer in the table. Repeat the procedure to complete the table.

Fact families: 1-8-9 and 5-5-10

Introduce the Lesson

While in Massachusetts, Hal and Horatio visited Cape Cod National Seashore. Its 43,604 acres include forty miles of beach and dozens of freshwater ponds. Visitors can see lighthouses and old shipwrecks. They can hike or cycle trails, surf or go sun-fishing, swim, camp, or go kayaking or canoeing. Cape Cod National Seashore was the second national seashore established in our nation to preserve and display part of God's beautiful creation. (Bible Promise: I, God as Master)

Teach for Understanding

Rename 10 ones as 1 ten

1. Distribute the Place Value Mats and Kits. Direct the students to place 14 ones in the Ones place. Place 14 ones in a Place Value frame and demonstrate each step.
 - How many ones are there? *14*
 - What do you do when there are 10 or more ones? *rename 10 ones as 1 ten*
 - What number is shown? *14*
 - Is 14 ones the same as 1 ten and 4 ones? *yes*
2. Direct the students to remove 10 ones from the Ones place and put 1 ten in the Tens place.
 - How many ones are there? *4*
 - How many tens are there? *1 ten and 4 ones? 1 ten*
 - What place do you add ten? *ones*
3. Repeat the activity, renaming 2 tens, 13 ones, 2 ones and 5 tens, 13 ones, 8 tens, 5 ones.

Add 2- and 3-digit numbers, renaming 10 ones as 1 ten

1. Write $16 + 37$ for display as shown.
2. Direct each student to show the first addend near the top of his mat and the second addend near the bottom of his mat. Demonstrate each step in another Place Value frame.

Tens	Ones
1	6
3	7
4	13

 - How many tens are there? *4*
 - How many ones are there? *13 ones? 3*
 - What place do you add ten? *ones*
3. Direct each student to move all the ones together on his mat.
 - How many ones are there? *13*
 - What do you do when there are 10 or more ones? *rename 10 ones as 1 ten*
4. Direct the students to remove 10 ones from the Ones place and put 1 ten at the top of the Tens place.
 - Which place do you add ten? *ones*
5. Direct each student to move all the tens together.
 - How many tens are there? *4*
6. Call attention to the Ones place of the written problem.
 - What is 6 ones + 3 ones? *9 ones*
 - Can you show 13 ones in the Ones place? *no*
 - What did you do with the 13 ones on your mat? *renamed 13 ones as 1 ten and 3 ones*
 Write 3 in the Ones place and 1 in the remaining box above the Tens place.
 - Why did I write a 1 in the box above the Tens place? *It represents the 10 ones that were renamed as 1 ten*
 - What is $1 \text{ ten} + 1 \text{ ten} + 3 \text{ tens? } 3 \text{ tens}$
 - Write 5 in the Tens place. Lead in reading the problem: *16 plus 37 equals 53.*
 - Did you rename when adding $16 + 37$? *yes*
7. Repeat the procedure for $239 + 439 = 678$.
8. Continue the activity, displaying the problems in a Place Value frame and writing them without a Place Value frame: $434 + 236 = 670$, $25 + 36 = 61$, $147 + 325 = 472$.

Rename 10 tens as 1 hundred

1. Direct the students to place 11 tens and 3 ones on their mats. Demonstrate each step on a Place Value frame: (H, T, O).
 - How many ones are there? *3*
 - Do you need to rename? *Yes! No, there are less than 10 ones.*
 - How many tens are there? *11*
 - What do you think you need to do when there are 10 or more tens? *rename 10 tens as 1 hundred*
2. Instruct the students to remove 10 tens from the Tens place and put 1 hundred in the Hundreds place.
 - What number is shown? *113*
 - Is 11 tens the same as 1 hundred and 1 ten? *yes*
3. Repeat the activity, renaming 16 tens, 2 ones, 7 ones, 6 ones, 2 ones and 19 tens, 7 ones, 1 hundred, 9 tens, 7 ones.

Introduce the Lesson broadens the student's knowledge and interest in the national parks theme or initiates a discussion to cultivate biblical principles.

Teach for Understanding and Check for Understanding provide effective procedures for explaining math concepts, using manipulatives, and encouraging problem solving.

Worktext pages provide practice of math skills and a tool to evaluate understanding.

Review Ones or Tens

Add Remove the Ones

Add Remove the Tens

Worktext pages 41-42

Extended Activities

The activities that correlate with Chapter 3, including the Calculator Wise activities, are located on the Teacher's Toolkit CD.

Answers

Page 41:
 1. $342 + 285 = 627$
 2. $481 + 373 = 854$
 3. $137 + 86 = 223$
 4. $83 + 44 = 127$
 5. $526 + 249 = 775$
 6. $72 + 354 = 426$
 7. $854 + 777 = 1631$

Page 42:
 1. $43 + 19 = 62$
 2. $118 + 176 = 294$
 3. $309 + 273 = 582$
 4. $176 + 193 = 369$
 5. $273 + 194 = 467$
 6. $347 + 560 = 907$
 7. $411 + 182 = 593$
 8. $284 + 182 = 466$
 9. $317 + 529 = 846$
 10. $128 + 393 = 521$
 11. $274 + 371 = 645$
 12. $703 + 648 = 1351$

Complete each table:

+	9	18
0	9	18
10	19	28
20	29	38
30	39	48
40	49	58
50	59	68
60	69	78
70	79	88
80	89	98
90	99	108

+	10	20
10	20	30
20	30	40
30	40	50
40	50	60
50	60	70
60	70	80
70	80	90
80	90	100

+	12
10	22
20	32
30	42
40	52
50	62
60	72
70	82
80	92
90	102

Answers

1. $43 + 19 = 62$
 2. $118 + 176 = 294$
 3. $309 + 273 = 582$
 4. $176 + 193 = 369$
 5. $273 + 194 = 467$
 6. $347 + 560 = 907$
 7. $411 + 182 = 593$
 8. $284 + 182 = 466$
 9. $317 + 529 = 846$
 10. $128 + 393 = 521$
 11. $274 + 371 = 645$
 12. $703 + 648 = 1351$

Worktext pages 41-42

Read the directions and guide the completion of the pages.

Extended Activities

The activities that correlate with Chapter 3, including the Calculator Wise activities, are located on the Teacher's Toolkit CD.

A Review section provides systematic review of skills and concepts in the Worktext.

Extended Activities and Calculator Wise activities, located on the Teacher's Toolkit CD, enhance the lessons with optional reinforcement. Many of the activities can be used in learning centers. Cumulative Review lessons include Problem-Solving Center pages that develop the student's thinking skills and Career Link pages that emphasize the value of math knowledge in the workplace.

Involve the student in active learning by providing manipulatives.

Encourage a Christian worldview by teaching biblical principles using Scripture, Bible Action Truths, and Bible Promises. Appendix pages A3-A5 provide explanations of Bible Action Truths and Bible Promises.