Unit 1 Review

Overview

Your child will review several essential skills she learned in first grade:

- adding and subtracting numbers to 10
- reading, writing, and comparing numbers to 100
- place value and simple mental math.

These gentle introductory lessons help your child start the year on a positive, confident note. They also refresh your child's memory if you took a break from math for the summer. But don't worry, it won't all be review! While you revisit these familiar skills, you'll also introduce two new ways to represent numbers: base-ten blocks and the number line.



Base-ten blocks

Number line

- Week 1 Review Addition and Subtraction
- Week 2 Review Comparing and Introduce the Number Line
- Week 3 Review Place Value and Numbers to 100

What Your Child Will Learn

In this unit your child will learn to:

- Solve addition and subtraction facts with numbers to 10
- Write addition and subtraction fact families
- Use the <, >, and = signs to compare numbers
- Identify numbers on the number line
- Represent numbers to 100 with base-ten blocks and understand their digits' place value
- Identify pairs that make 100 (like 99 and 1, or 60 and 40)
- Use place value to solve simple mental addition and subtraction problems (like 45 + 3 or 87 20)

Recommended Math Picture Books (Optional)

These picture books are scheduled in the optional Enrichment and Review lessons at the end of each week.

- Math-terpieces: The Art of Problem-Solving, by Greg Tang. Scholastic Press, 2003.
- Your Fantastic Elastic Brain: Stretch It, Shape It, by JoAnn Deak. Little Pickle Press, 2010.
- Biggest, Strongest, Fastest, by Steve Jenkins. HMH Books for Young Readers, 1997.

These books are a delightful way to enjoy math, but they are not required. They're listed at the beginning of each unit, so you have time to buy them or request them from the library.

Week 3 Review Place Value and Numbers to 100

Overview

This week, you'll review the numbers to 100 with base-ten blocks. You'll introduce the blocks with a fun design activity and then use the blocks to review place value, perform mental math, and find pairs that equal 100.

Lesson 3.1	Introduce Base-Ten Blocks
Lesson 3.2	Review Place Value
Lesson 3.3	Review Mental Math
Lesson 3.4	Review Pairs That Make 100
Lesson 3.5	Enrichment and Review (Optional)

Teaching Math with Confidence: Introducing Base-Ten Blocks

You'll introduce your child to base-ten blocks this week. You'll use these blocks all year long to model place value, demonstrate mental math strategies, and teach your child to add and subtract two- and three-digit numbers.

Base-ten blocks come in 4 different sizes: units, rods, flats, and large cubes. Each block is 10 times the size of the next-smaller block, just as each place in our base-ten number system has 10 times the value of the next-smaller place.



For example, here's how you'll use base-ten blocks to model the number 145:



You'll use base-ten blocks to model place value in second grade.

Base-ten blocks provide a concrete way for your child to understand the abstract concept of place value. This week, your child will get to know base-ten blocks in the context of the numbers to 100 so that she's ready to use them to model larger numbers (and more complex problems) later in the year.

Extra Materials Needed for Week 3

- Napkin
- For optional Enrichment and Review Lesson:
 - × Biggest, Strongest, Fastest, by Steve Jenkins
 - × Chutes and Ladders, Rack-O, or 100 Chart (Blackline Master 4), die, and counters

Make sure that you've placed the Place-Value Chart (Blackline Master 5) in a plastic page protector so you can write numbers on it with a dry erase maker.

You will also need base-ten blocks for this week's lessons. If you do not have real base-ten blocks, you can use the paper versions on Blackline Master 11 instead.

Lesson 3.1 Introduce Base-Ten Blocks

	Purpose	Materials
Warm-up	 Count coins Practice memory work Review subtraction facts to 10 	 Coins Counters Subtraction Climb and Slide game board (from workbook page 1.3A) Die
Activities	Introduce base-ten blocksFind the value of combinations of tens and ones	• Base-ten blocks
Workbook	 Find the value of combinations of tens and ones 	• Workbook pages 3.1A and 3.1B

Warm-up: Counting, Memory Work, and Review

- Place 6 dimes and 2 pennies on the table. How much are the coins worth? 62¢.
- What do we call the result when we add numbers together? *The sum*. What do we call the result when we subtract a number from another number? *The difference*.
- Play Subtraction Climb and Slide. See Lesson 1.3 (page 19) for directions.

Activity: Introduce Base-Ten Blocks

This week, we'll review place value and mental math with the numbers to 100. We'll use a new math tool: base-ten blocks! Today, you will make designs with the blocks and count to find the value of the blocks in each design.



Show your child the set of base-ten blocks. Tell your child the name of each type of block.



These names are nicknames, not important mathematical terms, and your child does not need to memorize them.

The smallest block is the unit. The other blocks are made of these units connected together. How many units are in 1 rod? 10. Have your child line up 10 units to confirm that they are the same size as 1 rod. Ten ones equal 1 ten.

Show your child that 10 rods equal 1 flat, and that 10 flats equal 1 large cube.



Can you guess why these blocks are called base-ten blocks? Sample answer: Each bigger block is made of 10 of the next-smaller blocks. The number 10 is the base of our number system. It's the foundation for place value and for how we read and write numbers.

Activity: Identify Quantities of Base-Ten Blocks

Place 3 rods and 5 units on the table. Each unit has a value of 1. So, each rod has a value of 10. I can count these blocks by 10s and 1s to find their value. Demonstrate how to count the blocks by 10s and 1s: 10, 20, 30, 31, 32, 33, 34, 35.





Or, I can use place-value thinking: There are 3 tens and 5 ones. 3 tens equal 30 and 5 ones equal 5. So, the blocks have a value of 35.



Using place-value thinking to find the blocks' value

Show your child the following block arrangements. Have her identify the value of each set of blocks, either by counting by 10s and 1s or by using place-value thinking.



Activity: Make Designs with Base-Ten Blocks

Leave 8 rods and 19 units on the table, and put away the rest of the base-ten blocks.

Leaving just these blocks on the table ensures your child's designs will have a value less than 100.

Let's use the blocks to build your initials. Have your child build her initials with units and rods.



Sample initials made from base-ten blocks

What's the value of the blocks in your design? Answers will vary.

If your child's design has 10 or more unit blocks, she can either trade 10 units for 1 rod or count the units by 1s. You'll explore trading in Lesson 3.2. Have your child make 2 more designs of her own choosing and find the value of the blocks in each design. If she's stuck, suggest she make a house, sun, or stick-figure person.



Workbook: Identify Combinations of Tens and Ones and Review

Have your child complete workbook pages 3.1A and 3.1B.

Workbook page 3.1B directs your child to color the leaves according to the key. If your child doesn't enjoy coloring or finds it tiring, she can draw an X of the appropriate color instead of coloring the entire shape.

Lesson 3.2 Review Place Value

	Purpose	Materials
Warm-up	Count moneyPractice memory workReview missing addends	• Play money
Activities	 Review place value with tens and ones Review writing two-digit numbers Understand that you can trade 10 ones for 1 ten 	 Place-Value Chart (Blackline Master 5) Base-ten blocks Playing cards
Workbook	 Write two-digit numbers to match combinations of tens and ones 	• Workbook pages 3.2A and 3.2B

Warm-up: Counting, Memory Work, and Review

- Place 7 ten-dollar bills and 3 one-dollar bills on the table. How much are the bills worth? \$73.
- Name the months in order. January, February, March, April, May, June, July, August, September, October, November, December. How many months are in a year? 12.
- Secretly write each of the following equations on a piece of paper and hide the addend indicated with a slip of paper. Have your child pretend to use "x-ray vision" to identify the hidden number in each equation.

10 + 🔄 = 15	() + =	ii) + 3 = 3
10 + 6 = 16	10 + 20 =	

Activity: Review Place Value

In the last lesson, you made base-ten block designs and found the value of the blocks in your designs. Today, we'll use base-ten blocks to review place value.

Show your child both pages of the Place-Value Chart (Blackline Master 5.) When we write a number, the Place-Value Chart helps write each digit in the place that matches its value. This year, we'll use a place-value chart with places for thousands, hundreds, tens, and ones.

thousands	hundreds	tens	ones

We'll use just the page with the tens-place and ones-place today. Put away the page with the hundreds-place and thousands-place. Place 7 rods and 2 units on the table. What is the value of the blocks? 72.



Let's use the Place-Value Chart to help write the number 72. Place the 7 rods in the tensplace and the 2 units in the ones-place on the Place-Value Chart.



There are 7 tens, so I write 7 in the tens-place. Write 7 in the tens-place on the Place-Value Chart. There are 2 ones, so I write 2 in the ones-place. Write 2 in the ones-place on the Place-Value Chart. So, that's the number 72.



We call 7 and 2 the *digits* in the number 72. The number 72 has 2 digits, so we call it a two-digit number.

Show your child the following sets of blocks. For each arrangement, have him identify the blocks' value and write the corresponding digits on the Place-Value Chart.



Activity: Trade 10 Ones for 1 Ten

This activity and the following game preview the trading your child will do later in the year when he adds 2- or 3-digit numbers.

Place 2 rods and 15 units on the Place-Value Chart. When we write numbers, we can only use the digits from 0 to 9. If there are any groups of 10 on the Place-Value Chart, we have to trade before we record the digits. Help your child trade 10 units for 1 rod and write the digits in the Place-Value Chart.



So, what's the value of the blocks? 35.

Activity: Play Race to 100

Play Race to 100.

Race to 100					
Materials: Aces, 5s, and 10s from 2 decks of cards (24 cards total); base-ten blocks Object of the Game: Be the first player to reach 100.					
Shuffle the cards and place them in a face-down pile. Make a simple scorecard to re- cord the score.					
Louise Mom					
On your turn flip over a card. If you flip over a 1, take 1 unit. If you flip over a 5, take 5 units. If you flip over a 10, take 1 rod.					
Find the total value of your blocks and record this score in the chart.					
$ \begin{array}{c c} & & & \\ $					
Sample first play					
Take turns flipping over a card, taking the corresponding blocks, and recording the to- tal value of your blocks. If you have ten units at the end of a turn, trade them for a rod.					
Trade 10 units for 1 rod if possible.					
If you run out of cards, shuffle and reuse the discard pile.					
Continue until one player reaches 100 or goes over 100.					
Louise 5 15 16 26 36 41 42 52 57 67 68 78 88 98 103					
Mom 5 6 16 17 22 23 24 29 39 44 45 50 60 65					
Sample final scorecard					

Workbook: Write Two-Digit Numbers and Review

Have your child complete workbook pages 3.2A and 3.2B.

Lesson 3.3 Review Mental Math

	Purpose	Materials
Warm-up	 Count by 10s starting at a number other than 0 Practice memory work Review addition facts to 10 	 Base-ten blocks Counters Addition Climb and Slide game board (from workbook page 1.1A) Die
Activities	 Understand the purpose of mental math Solve simple mental addition or subtraction problems 	Base-ten blocksNapkin
Workbook	 Solve simple mental addition or subtraction problems 	• Workbook pages 3.3A and 3.3B

Warm-up: Counting, Memory Work, and Review

- Count with me by 10s, starting at 5. We'll model the numbers with base-ten blocks as we count. Begin with 5 units on the table, and add a rod as you say each new number: 5, 15, 25.... Continue until you reach 95.
- What do we call the result when we add numbers together? *The sum.* What do we call the result when we subtract a number from another number? *The difference.*
- Play Addition Climb and Slide. See Lesson 1.1 (page 14) for directions.

Activity: Review Mental Addition and Subtraction

In first grade, you learned how to add and subtract numbers in your head. This kind of math is called mental math. Mental math is important because it helps you understand numbers, place value, and addition and subtraction more deeply. It also helps get you ready to solve more complicated written addition and subtraction problems. Today, we'll review some of the mental math skills you learned in first grade with a mental math magic show.

Write "34 + 20 =" on a piece of paper. Have your child model the problem with base-ten blocks. Place-value thinking makes it easier to add 34 plus 20 in your head. 34 is 3 tens and 4 ones. 20 is 2 tens. When I add them together, I have 5 tens and 4 ones. Have your child complete the written equation: 34 + 20 = 54.

Write the following problems on paper. Model each problem with base-ten blocks and have your child use place-value thinking to solve them.

- 34 + 2 = 36
- 34 2 = 32
- 34 20 = 14

- 34 4 = 30
- 34 + 6 = 40

For 34 + 6, remind your child to trade the 10 units for 1 rod.

Activity: Mental Math Magic with Addition

We'll do lots of mental math this year, and we'll use many different activities to make it fun. Today, we'll play Mental Math Magic. We'll pretend I'm a magician, but I'm not very good at it! I need you, my trusty assistant, to help make the show a success.

Always feel free to adjust activities to better fit you and your child. If you and your child enjoy pretending, you can ham it up, add props, and make the activity as elaborate as you like. But if you don't enjoy pretend activities or are pressed for time, simply model the problems as directed and have your child answer the questions without the pretend context.

Pretend you're facing an audience, and use your "magician voice" to announce: **I have 10.** Put 1 rod on the table, then cover it with a napkin or piece of paper.



Then, I add 20. Slide 2 rods under the napkin (so that all 3 rods are covered).



Whisper to your child: **How many do I have now, trusty assistant?** *30*. Remove the napkin with a flourish, and announce loudly to the pretend audience: **Now there are 30**!



If your child isn't sure, encourage her to visualize the rods under the napkin and use place-value thinking to find the total. If she's still not sure, briefly remove the napkin and allow her to peek.

Continue the "magic show" with the following questions. Keep the pace brisk, but adjust as needed for your child.

- I have 30. Then, I add 7. How many do I have now, trusty assistant? 37.
- I have 37. Then, I add 1. How many do I have now? 38.
- I have 38. Then, I add 2. How many do I have now? 40. Trade the 10 units for 1 rod.
- I have 40. Then, I add 10. How many do I have now? 50.
- I have 50. Then, I add 5. How many do I have now? 55.
- I have 55. Then, I add 30. How many do I have now? 85.
- I have 85. Then, I add 5. How many do I have now? 90.
- I have 90. Then, I add 10. How many do I have now? 100.

Activity: Mental Math Magic with Subtraction

Now, I will make all of the blocks disappear! Continue the "magic show" with the following questions.

- I have 100. Then, I take away 30. How many do I have now? 70.
- I have 70. Then, I take away 20. How many do I have now? 50.
- I have 50. Then, I take away 10. How many do I have now? 40.
- I have 40. Then, I take away 20. How many do I have now? 20.
- I have 20. Then, I take away 10. How many do I have now? 10.
- I have 10. Then, I take away 10. How many do I have now? O.

Thank you, assistant! Let's take a bow!

Workbook: Mental Addition and Subtraction and Review

Have your child complete workbook pages 3.3A and 3.3B.

Lesson 3.4 Review Pairs That Make 100

	Purpose	Materials
Warm-up	Count coinsPractice memory workReview counting out coins	 Coins 3 small school items (i.e., pencil, ruler, eraser)
Activities	 Understand that you can trade 10 tens for 1 hundred Introduce the hundreds-place Use base-ten blocks to find pairs that make 100 	 Base-ten blocks Place-Value Chart (Blackline Master 5) Part-Total Mat (Blackline Master 2)
Workbook	 Use base-ten blocks to find pairs that make 100 	• Workbook pages 3.4A and 3.4B

Warm-up: Counting, Memory Work, and Review

- Place 2 dimes, 1 nickel, and 5 pennies on the table. How much are the coins worth? 30¢.
- How many sides does a triangle have? 3. A square? 4. A rectangle? 4.
- Write 17¢, 40¢, 65¢ on separate slips of paper. Place each next to a small school item (like a pencil, ruler, and eraser). Give your child coins and have him pretend to buy the items.



Activity: Trade 10 Tens for 1 Hundred

In the last lesson, we reviewed the tens-place and ones-place. Today, you'll learn about the hundreds-place and use base-ten blocks to find pairs that make 100.

Place 9 rods and 9 units on the Place-Value Chart. (Use both pages of the Place-Value Chart for this lesson.) **How much are the blocks worth?** *99*.

thousands	hundreds	tens	ones

What number comes after 99? 100. Have your child add 1 unit to the Place-Value Chart.

thousands	hundreds	tens	ones

How many ones do you have now? 10. Remember, if we have a group of 10, we have to trade. Help your child trade the 10 units for 1 rod.



How many tens do you have now? 10. Help your child trade the 10 rods for 1 flat and place it in the hundreds-place. 10 tens make 1 hundred.



Now we're ready to write the digits in the Place-Value Chart. Demonstrate how to write 100 on the Place-Value Chart. Why is there a zero in the tens-place and ones-place? *Because there are zero ones and zero tens*.



What would happen if I didn't write the zeros in 100? Sample answers: The number would look like 1. The 1 would be in the wrong place.

If I don't write the zeros, the 1 will be in the wrong place. We call zeros like these placeholders, because they hold the tens-place and ones-place for the 1. Make sure you always write zeros if they're holding a place for another digit.

Activity: Find Pairs That Make 100

Place the Part-Total Mat and 10 rods on the table. Let's pretend we have 10 bars of chocolate to share. We'll pretend each rod is 1 bar, and that each bar of chocolate has 10 pieces. How many pieces of chocolate are in the 10 bars? 100. How do you know? 10 tens make 100. Write 100 in the total box on the Part-Total Mat.



Real-life contexts make math more meaningful and interesting, so you'll often find pretend activities involving food in this book. Always feel free to use a different food than the one suggested to better match your family's eating habits. Give 5 rods to your child. Let's pretend we share the chocolate equally. How many pieces of chocolate do each of us get? *50*. Have your child write 50 and 50 on the Part-Total Mat.



What's another way we could share the bars? *Answers will vary*. Have your child find several ways to share the 10 rods and record each on the Part-Total Mat.



We could also pretend to break 1 of the chocolate bars into 10 pieces. Trade 1 of the rods for 10 units.

Now we have many more ways to share the chocolate! Here's one way. Give your child 1 unit and keep 9 rods and 9 units for yourself. How many pieces of chocolate do each of us get? I get 1 piece, but you get 99! Have your child record the amounts on the Part-Total Mat.



Have your child find and record several more ways to share the rods and units.



There are 101 different ways to share 100 pieces of chocolate, so we don't have to find all of them!

Workbook: Find Pairs That Make 100 and Review

Have your child complete workbook pages 3.4A and 3.4B.

Lesson 3.5 Enrichment and Review (Optional)

	Purpose	Materials
Warm-up	 Count backward from 100 to 1 Review memory work Review your child's favorite or most challenging activities from Week 3 	 Varies, depending on the activities you choose
Picture Book	• Understand large numbers in the context of animals	 Biggest, Strongest, Fastest, by Steve Jenkins
Enrichment Activity	 Play a classic board game with the numbers to 100 	 Chutes and Ladders, Rack-O, or 100 Chart (Blackline Master 4), die, and counters

Warm-up: Counting, Memory Work, and Review

- Have your child count backward from 100 to 1.
- Quiz your child on the memory work through Week 2. See page 523 for the full list.

Your child will gradually memorize the full list of memory work on page 523 over the course of the year. New memory work is introduced every 2 weeks, so there is no new memory work on the odd-numbered weeks.

• If you have time, repeat one or two of the activities from this week's lessons. Choose activities your child especially enjoyed or found challenging.

Math Picture Book: Biggest, Strongest, Fastest

Read *Biggest, Strongest, Fastest,* by Steve Jenkins. As you read, marvel at the animals and discuss the numbers you and your child encounter in the book.

Enrichment Activity: Play a Classic Game

Play a classic board game with your child that uses the numbers to 100, such as Chutes and Ladders or Rack-O.

If you don't own either of these games, make a simple Chutes and Ladders board from your 100 Chart. To make the board, place the 100 Chart in a plastic page protector and use a dryerase marker to draw a few ladders and chutes.

Ι	2	3	4	5	6	7	8	9	10
Ш	12	13	14	15	16	47	18	A	20
21	2%	23	24	25	26	Æ	28	29	30
31	32	33	34	35	36	37	68	39	40
41	42	43	44	屘	46	Ľ	48	49	50
51	52	53	54	55	56	\$7	58	59	60
61	62	K	64	65	76	67	68	69	79
7Ļ	72.	73	NY	75	76	77	78	Z	80
81	82	\$ 3	84	85	86	87_1	88	89	90
91	92	93	Rq4	95	96	97	A98	99	100

To play, have each player place a counter on the box labeled 100. Take turns rolling a die and moving backwards the corresponding number of spaces. If you land on a chute, slide your piece down it to the box at the bottom of the chute. If you land on a ladder, slide your piece up the ladder to the box at the top. Continue until one player reaches 100.



Week 3 Answer Key





Week 3 Answer Key



Unit 1 Checkpoint

What to Expect at the End of Unit 1

By the end of Unit 1, most children will be able to do the following:

- Solve most addition and subtraction facts with numbers to 10 (like 7 + 2 or 8 3) mentally and in less than 3 seconds.
- Write addition and subtraction fact families.
- Begin to read and write the <, >, and = signs to compare numbers to 100. Most second graders will still be working on this and need help remembering the difference between the greater-than and less-than signs.
- Use reasoning and counting to identify numbers on the number line.
- Represent numbers to 100 with base-ten blocks and understand their digits' place value.
- Use base-ten blocks to identify pairs that make 100 (like 99 and 1, or 60 and 40).
- Solve simple mental addition and subtraction problems (like 45 + 3 or 87 20), either mentally or with base-ten blocks.

Is Your Child Ready to Move on?

In Unit 2 your child will learn the addition facts with sums to 20. Before moving on to Unit 2, your child should be able to find answers to most addition facts with sums to 10 mentally and in less than 3 seconds.

Your child does not need to fully master the rest of the Unit 1 skills before moving on to Unit 2. She will continue to practice comparing numbers, identifying numbers on the number line, and place value with the numbers to 100 during the warm-ups and review workbook pages.

What to Do If Your Child Needs More Practice

If your child needs more practice with the sums to 10, spend another day or two playing Addition Climb and Slide before moving on to Unit 2.

Lesson 8.4 Practice Counting Money

	Purpose	Materials
Warm-up	Count by 2sPractice memory workReview word problems	• None
Activities	 Count money combinations that include quarters 	 Play money Coins Savings Game game board (from workbook page 8.4A) Die Counters
Workbook	• Assess addition fact mastery	• Workbook page 8.4B

Warm-up: Counting, Memory Work, and Review

- Have your child count by 2s from 180 to 200.
- If a number has 1, 3, 5, 7, or 9 in the ones-place, is the number even or odd? *Odd*. If a number has 0, 2, 4, 6, or 8 in the ones-place, is the number even or odd? *Even*.
- Have your child write a matching equation for each of the following word problems and solve.
 - You earn \$6 on Monday and \$8 on Tuesday. How much do you earn in all? 6 + 8 = 14. \$14.
 - You have \$12, and you want to buy something that costs \$15. How much more money do you need? 12 + _3_ = 15, or 15 - 12 = 3. \$3.
 - You earn \$8. Then, you spend \$4. How much money do you have left?
 8 4 = 4. \$4.

Activity: Count Coin Combinations with Quarters

This week, you've learned how to count money and use a decimal point to write dollars and cents. Today, you'll practice counting money combinations that include quarters.

Mix up 2 quarters, 3 dimes, 1 nickel, and 4 pennies on the table. Have your child sort the coins by type, put the piles in order by coin value, and count them: *25, 50, 60, 70, 80, 85, 86, 87, 88, 89*. Have him write the amount two ways: with a cents sign, and with a dollar sign and decimal point.



If your family's currency includes twenty-cent coins rather than quarters, use them instead of quarters in this activity.

Mix up the following money combinations and give them to your child. Have him find the value of each combination and write it with a dollar sign and decimal point.

- 1 five-dollar bill, 1 quarter, 3 nickels, 6 pennies. \$5.46.
- 3 one-dollar bills, 2 quarters, 1 dime, 1 nickel, 3 pennies. \$3.68
- 5 ten-dollar bills, 2 one-dollar bills, 3 quarters, 1 nickel, and 4 pennies. \$52.84

Activity: Play the Savings Game

We're going to play the Savings Game to practice counting money. Play the Savings Game.

The Savings Game

Materials: The Savings Game game board (from workbook page 8.4A); play money and coins (twenty-dollar bills, ten-dollar bills, five-dollar bills, one-dollar bills, and quarters); die; counters

Object of the Game: Be the first person to save \$100.

Have each player choose a different-colored counter to use as a game token and place it on one of the Start squares. Give each player 2 twenty-dollar bills, 2 ten-dollar bills, 2 five-dollar bills, 2 one-dollar bills, and 2 quarters to start. This is your "savings" that you will add to or spend from during the game.

Place the rest of the play money and coins on the table, in order from greatest value to lowest value. When you "earn" money in the game, take it from these piles. When you "spend" money in the game, take it from your savings and return it to these piles.



On your turn, roll the die and advance your token the corresponding number of squares clockwise around the path. Follow the directions on the square (by either "earning" or "spending" money). Count your savings and announce your current total. Play then passes to the other player.

The first player to have \$100 wins the game.

If your child needs extra practice reading and writing money with a dollar sign and decimal point, record your scores on a simple scorecard after each turn.

Trade your quarters and bills as needed to make counting and "spending" simpler. For example, if you land on the square that directs you to spend 75¢ but only have 1 quarter, trade a one-dollar bill for 4 quarters.

Workbook: Assess Addition Fact Mastery

Have your child complete workbook page 8.4B. Have him work horizontally across each row.

If your child is overwhelmed by the number of problems on the page, ask him the problems orally instead. Note whether he knows the correct answer, and give him at least 3 seconds to respond to each question.

Workbook pages 8.3B and 8.4B together provide an informal assessment of how well your child has mastered the addition facts. See the Unit 3 Checkpoint for guidance for assessing your child's progress.

Lesson 11.4 Subtraction Word Problems at the Pretend Store

	Purpose	Materials
Warm-up	 Count money Practice memory work Review -2, -3, -4, -5 facts 	 Play money Four in a Row game board (from workbook page 11.1A) Counters
Activities	 Review addition and subtraction word problems in the context of money 	6 small toys6 slips of paperPlay money
Workbook	Solve money word problems	• Workbook pages 11.4A and 11.4B

Warm-up: Counting, Memory Work, and Review

- Place 5 twenty-dollar bills, 1 ten-dollar bill, 4 five-dollar bills, and 2 one-dollar bills on the table. **How much is the money worth?** *\$132*.
- What do we call the result when we add numbers together? *The sum.* What do we call the result when we subtract a number from another number? *The difference.*
- Play Four in a Row. See Lesson 11.1 (page 176) for directions.

If your child already knows the -2, -3, -4, and -5 facts well, you can play a different subtraction game from this unit instead.

Activity: Solve Word Problems at the Pretend Store

You have learned how to use addition and subtraction to solve many different types of word problems. Today, you're going to practice solving word problems at the pretend store.

Write \$7, \$9, \$10, \$12, \$13, and \$15 on small slips of paper to make price tags. Lay 6 small toys in a row and have your child place a price tag next to each toy. Also place play money on the table to use.



Act out each of the following problems with the toys in your pretend store. Have your child write an equation to match each problem and solve. He may take bills from the piles of play money as needed.

Give your child 1 ten-dollar bill, 1 five-dollar bill, and 2 one-dollar bills. You have \$17.
 Then, you buy the item that costs \$10. Have your child pay \$10. How much money do you have left? \$7.



•

• You buy the item that costs \$7 and the item that costs \$12. How much do you pay? \$19.

• Which item costs \$3 more than the \$12 item? The \$15 item.

\$12 |2 + 3 = 15

How much more does the \$13 item cost than the \$9 item? \$4.

\$13 \$9 13 - 9 = 4

• Give your child 1 five-dollar bill and 3 one-dollar bills. You have \$8. You want to buy the item that costs \$13. How much more money do you need? \$5.



• How much less does the \$7 item cost than the \$12 item? \$5.

\$7 \$12 12 - 7 = 5

• You spend \$16 to buy 2 items. One costs \$9. How much does the other item cost? \$7.



• Which item costs \$5 less than the \$15 item? The \$10 item.

\$15 15 - 10 = 5

If you have time, invite your child to make up some word problems about the pretend store, too.

Workbook: Subtraction Word Problems and Review

Have your child complete workbook pages 11.4A and 11.4B.

Lesson 13.2 Pictographs and Bar Graphs with Increments of 10

	Purpose	Materials
Warm-up	Count dimes by 10sPractice memory workReview subtraction facts	 Coins Four in a Row game board (from workbook page 11.1A) Counters
Activities	 Interpret pictographs and bar graphs with an increment of 10 Use addition and subtraction to answer questions about pictographs 	• Workbook page 13.2A
Workbook	 Review previously-learned material 	• Workbook page 13.2B

Warm-up: Counting, Memory Work, and Review

- Place a handful of dimes on the table. About how many cents do you think the coins are worth? *Answers will vary*. Have your child count the dimes by 10s to find their value.
- If a number has 1, 3, 5, 7, or 9 in the ones-place, is the number even or odd? *Odd*. If a number has 0, 2, 4, 6, or 8 in the ones-place, is the number even or odd? *Even*.
- Play Four in a Row. See Lesson 11.1 (page 176) for directions.

Activity: Interpret a Pictograph with an Increment of 10

In the last lesson, you learned how to draw and interpret pictographs. In one of the pictographs, each circle stood for 1 cookie. In the other pictograph, each circle stood for 2 cookies. Today, you'll learn about pictographs where each picture stands for 10.

Show your child workbook page 13.2A and read aloud the directions at the top. Point to the key on the pictograph. What does each soccer ball stand for? 10 minutes of playing soccer.

Each soccer ball stands for 10 minutes. So, what number should we count by to find how much time Tommy spent playing soccer? 10. Have your child count the soccer balls by 10s to complete the chart.

Day	Minutes
Monday	30
Tuesday	20
Wednesday	50

See the Week 13 **Teaching Math with Confidence** for more on using increments other than 1 in graphs.

Briefly discuss the pictograph and chart with these questions.

• Which day did Tommy play soccer the most? Wednesday.

- Which day did Tommy play soccer the least? *Tuesday*.
- How many minutes did Tommy play soccer on Monday and Tuesday? 50 minutes. Have your child write an addition equation to match: 30 + 20 = 50.
- How many minutes more did Tommy play soccer on Monday than on Tuesday? 10 minutes. Have your child write a subtraction equation to match: 30 - 20 = 10.
- Tommy played soccer 10 minutes longer on Monday than Tuesday, but the difference between the rows on the pictograph is just 1 soccer ball. Why? *Sample answer: Each soccer ball stands for 10 minutes.*
- How many minutes less did Tommy play soccer on Tuesday than on Wednesday? 30 *minutes*. Have your child write a subtraction equation to match: 50 20 = 30.

Even if your child finds the answer to the last question visually, have him write the matching subtraction equation anyway. This solidifies his understanding of how to use subtraction to compare and also prepares him to solve comparison problems with greater numbers.

Activity: Interpret a Bar Graph with an Increment of 10

Tommy liked seeing how much time he spent playing soccer, so he decided to keep recording his minutes for the rest of the week. This time, he made a bar graph. Read your child the directions at the bottom of workbook page 13.2A.

What number did Tommy count by when he wrote the numbers on the horizontal axis? 10. Why do you think he did that? Sample answer: It would take a long time to write all the numbers to 60!

Which bar shows how long he played soccer on Thursday? *Child points to bar for Thursday.* Show your child how to point to the end of the bar and then slide his finger down to find the corresponding number of minutes.



How many minutes did Tommy play soccer on Thursday? 40. Have your child write 40 in the corresponding spot on the chart. Then have him read the bar graph to complete the rest of the chart.

Day	Minutes
Thursday	40
Friday	IO
Saturday	60
Sunday	40

Briefly discuss the bar graph and matching chart with these questions.

- Which day did Tommy play soccer the most? Saturday.
- Which day did Tommy play soccer the least? *Friday*.
- Which two days did Tommy play soccer the same amount of time? *Thursday and Sunday*. Point out that the bars for these two days are the same length.
- How many minutes did Tommy play soccer on Thursday and Friday? 50 minutes. Have your child write an addition equation to match: 40 + 10 = 50.
- How many minutes more did Tommy play soccer on Thursday than Friday? 30 minutes. Have your child write a subtraction equation to match: 40 –10 = 30.
- How many minutes less did Tommy play soccer on Friday than on Saturday? 50 *minutes*. Have your child write a subtraction equation to match: 60 10 = 50.

Workbook: Review

Have your child complete workbook page 13.2B.

Lesson 14.1 Use Related Addition Facts to Add One-Digit Numbers

	Purpose	Materials
Warm-up	Count moneyPractice memory workReview mental addition	Play moneyBase-ten blocks, optional
Activities	 Use related addition facts to add one- digit numbers to two-digit numbers 	 Base-ten blocks Double ten-frames (Blackline Master 1) Workbook page 14.1A Die
Workbook	• Review previously-learned material	• Workbook page 14.1B

Warm-up: Counting, Memory Work, and Review

- Place 3 twenty-dollar bills, 3 five-dollar bills, and 6 one-dollar bills on the table. **How much is this money worth?** \$81.
- How many hours are in a day? 24. How many minutes are in an hour? 60. How many seconds are in a minute? 60.
- Write the following problems on paper and have your child solve them mentally. Allow her to use base-ten blocks as needed.
 - × 43 + 4 = 47
 - × 47 + 3 = 50
 - × 50 + 28 = 78
 - × 78 + 2 = 80
 - × 80 + 20 = 100

Activity: Use Related Addition Facts to Add One-Digit Numbers to Two-Digit Numbers

You already know how to solve mental addition problems like 42 + 3 or 37 + 20. In this unit, you'll learn how to solve more difficult addition problems in your head.

This week, we'll focus on mentally adding one-digit numbers to two-digit numbers. You'll learn two different strategies for these problems, and you can use whichever strategy works best for you.

See the Week 14 **Teaching Math with Confidence** for more on using multiple strategies to solve mental math problems.

Today, you'll learn how to use related addition facts to add one-digit numbers to two-digit numbers. Show your child the first problem at the top of workbook page 14.1A (37 + 4). Model the problem with base-ten blocks and the ten-frames as shown.



Before we add, let's split 37 into tens and ones. That will make it easier to use a related addition fact to find the sum. What's the expanded form of 37? *30 plus 7*. Draw part-total lines below 37 to split it into 30 and 7.



Now, you can use the related addition fact to add the ones. Point to the unit blocks on the ten-frames. What's 7 plus 4? 11.

What's 30 plus 11? *41*. **So, 37 plus 4 equals 41.** Have your child complete the written equation: *37 + 4 = 41*.



Your child does not need to trade 10 units for 1 rod, but she may if she'd like to verify the blocks' value.

Have your child solve the rest of the problems at the top of workbook page 14.1A in the same way.



Activity: Play Roll and Add

Play Roll and Add.

If your child is still beginning to understand how to add these numbers, model every problem with baseten blocks. If your child is ready for more challenge, encourage her to find the sums in the game mentally. She will practice mental addition more throughout Week 14.

	Roll and Add			
Materials: Die; Roll and Add game board from workbook page 14.1 Object of the Game: Win the most points.				
Roll and Add has 5 rounds. In each round, both players roll the die, write the corre- sponding number in the blank on the scorecard, and find the sum of the printed num- ber and written number. Whoever has the greater sum wins a point. If the sums are equal, both players win a point. For example, if Player 1 rolls a 4 and Player 2 rolls a 2 in the first round:				
	Player 1	Player 2		
29 + 4 = 33 29 + 2 = 31				
Player 1 wins the point, since 33 is greater than 31.				
Play until you have completed the entire scorecard. Whoever has won more points wins the game.				

Workbook: Review

Have your child complete workbook page 14.1B.

Lesson 16.5 Enrichment and Review (Optional)

	Purpose	Materials
Warm-up	 Count backward by 1s, 2s, 5s, or 10s Review memory work Review your child's favorite or most challenging activities from Week 16 	 Varies, depending on the activities you choose
Picture Book	• Understand telling time in a real-life context	 It's About Time, Max!, written by Kitty Richards and illustrated by Gioia Flammenghi
Enrichment Activity	• Estimate seconds	• Timer

Warm-up: Counting, Memory Work, and Review

- Have your child count backward from 200 to 100 by 1s, 2s, 5s, or 10s. (Choose whichever counting sequence your child needs to practice the most.)
- Quiz your child on the memory work through Week 16. See page 523 for the full list.
- If you have time, repeat one or two of the activities from this week's lessons. Choose activities your child especially enjoyed or found challenging.

Math Picture Book: It's About Time, Max!

Read *It's About Time, Max!*, written by Kitty Richards and illustrated by Gioia Flammenghi. As you read, point out the clocks in the illustrations and discuss how Max finds the times.

Enrichment Activity: Estimate Seconds While Balancing on One Foot

Seconds are very short! It takes about a second to say the word Mississippi. Have your child balance on one foot for as long as he can. Have him count "Mississippis" to estimate how long he balances: *1 Mississippi, 2 Mississippi, 3 Mississippi.*..

At the same time, use a timer to measure how long he balances. Then, compare his estimate with the actual length of time and discuss how close the measurements are. For example: **The timer measured 12 seconds, and you counted 11 Mississippis. That's pretty close!**

Repeat several times. Have your child try balancing on both the left and right foot, and also have him try balancing with his eyes closed.

If your family typically uses a different word to estimate seconds (such as "thousand" or "potato"), feel free to use that word instead.

Lesson 20.4 Yards and Miles

	Purpose	Materials
Warm-up	 Count by quarter-hour intervals Practice memory work Review mental subtraction 	ClockBase-ten blocks, optional
Activities	 Introduce yards and miles Learn that 3 feet (or 36 inches) equal 1 yard Identify whether objects are shorter, longer, or equal to a yard 	 Paper Scissors Tape 1-foot ruler
Workbook	• Choose a sensible unit for a given length	• Workbook pages 20.4A and 20.4B

Warm-up: Counting, Memory Work, and Review

- Set the clock to 11:00. Have your child count by quarter-hour intervals from 11:00 to 1:00. Have him turn the clock's hands to match each time.
- How many minutes equal a half-hour? 30.
 How many minutes equal a quarter-hour? 15.
- Write the following problems on paper and have your child solve them mentally. Allow him to use base-ten blocks as needed.
 - × 32–6=*26*
 - × 45 8 = 37
 - × 70 9 = *61*
 - × 43 25 = *18*
 - × 94 36 = 58

Activity: Make a Paper Yardstick

This week, you have learned about inches and feet. Today, you will learn about yards and miles.

We're going to make a paper strip that's 1 yard long. First, we need a long strip of paper to measure. Help your child fold a piece of copy paper into fourths, cut the paper along the fold lines, and tape the strips together.



3 feet equal 1 yard. Let's measure to make the paper strip 3 feet long. Help your child use the 1-foot ruler to mark 1-foot increments along the edge of the strip. Number each mark and continue until he's measured out 3 feet.

Have your child draw a line at the 3-foot mark and cut along the line. Have him write "1 yard" on the back of the strip.



Discuss your child's experiences with yards. For example: **The lanes at the swimming pool** are 25 yards long. A football field is 100 yards long.

If your family uses the metric system, explain that a yard is a little shorter than a meter. Your child will learn about meters in Week 21.

Do you think you're taller or shorter than 1 yard? *Answers will vary*. Hold the paper yardstick vertically and compare it to your child's height.

Try to hold your hands about one yard apart. Child holds hands about one yard apart. Place the paper yardstick between his hands to check his estimate.

3 feet equal 1 yard. How many inches are in 1 foot? *12.* **So, how can we find how many inches are in a yard?** *Add 12 plus 12 plus 12.* Write 12 + 12 + 12 = on a piece of paper and have your child find the sum mentally.

Your child will memorize the number of inches and feet that equal a yard in the memory work in Week 22.

Activity: 1 Yard Scavenger Hunt

Now, we're going to go on a scavenger hunt. This scavenger hunt has 3 parts.

First, find 3 pieces of furniture shorter than a yard. Sample answers: stepstool, lamp, bench. Have your child compare each object with the paper yardstick to check.

Next, find 3 pieces of furniture taller than a yard. *Sample answers: refrigerator, large bookcase, coat rack.* Have your child compare each object with the paper yardstick.

Last, find 3 pieces of furniture about a yard tall. *Sample answers: couch, kitchen counter, small bookcase*. Again, have your child compare each object with the paper yardstick.



Finding objects that exactly equal a yard may be difficult. It's fine if these objects are several inches longer or shorter than a yard.

Save this paper yardstick to compare with a paper meterstick in Lesson 21.3.

Activity: Introduce Miles

Now you've learned about inches, feet, and yards. We use these units for measuring objects and short distances. But when we need to measure longer distances, we use miles. 1 mile is 5,280 feet long!

Your child does not need to memorize how many feet equal a mile.

Discuss your child's experiences with miles, and tell him the length of some familiar trips in miles. For example: The walk to the library is about 1 mile. Our bike ride last week was 6 miles long. Grandma and Grandpa's house is about 20 miles away.

See Lesson 20.5 for an enrichment activity to help make this abstract idea of miles more concrete.

Workbook: Choose a Sensible Unit and Review

Have your child complete workbook pages 20.4A and 20.4B.

Lesson 22.3 Add Two-Digit Numbers with Sums Greater than 100

	Purpose	Materials
Warm-up	 Count by 3s Practice memory work Review measuring in centimeters 	 Counters 30-centimeter (or 1-foot) ruler, marked in centimeters Several writing utensils of different lengths
Activities	 Use the addition algorithm to add two-digit numbers with a sum greater than 100 Trade 10 tens for 1 hundred when adding 	 Addition Algorithm diagram (from workbook page 22.2A) Workbook pages 22.3A Base-ten blocks Place-Value Chart (Blackline Master 5) Paper clip
Workbook	• Review previously-learned material	• Workbook page 22.3B

Warm-up: Counting, Memory Work, and Review

• Arrange 7 groups of 3 counters on the table. Have your child count by 3s to find the total number of counters: 3, 6, 9, 12, 15, 18, 21. If she has trouble, encourage her to add 3 to her previous number.

- How many inches equal 1 foot? 12. How many feet equal 1 yard? 3. How many inches equal 1 yard? 36.
- Place several writing utensils of different lengths on the table, such as crayons, pencils, or markers. Have your child estimate the length of each object in centimeters and then use a ruler to measure its actual length.

Activity: Add Two-Digit Numbers with a Sum Greater Than 100

In the last two lessons, you learned how to use the addition algorithm to add two-digit numbers. Today, you'll learn how to use the addition algorithm to add two-digit numbers when the sum is greater than 100.

We'll use the Addition Algorithm diagram from the last lesson to help remember the steps. Place workbook page 22.2A on the table for your child to refer to as needed.

Point to the first exercise on workbook page 22.3A (71 + 53). Have your child model 71 and 53 with base-ten blocks on the Place-Value Chart. Use both pages of the Place-Value Chart.



Which place do we start with? *The ones-place*. Have your child add the digits in the onesplace and record their sum. If she has trouble remembering the steps, have her refer to the Addition Algorithm diagram (from workbook page 22.2A).

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What do we do next? *Follow the steps for the tens-place*. Have your child follow the steps to add the digits in the tens-place and trade 10 rods for 1 flat.



What's the last step? *Record*. You added 1 hundred to the hundreds-place. Have your child write a 1 above the hundreds-place as shown. That leaves 2 tens in the tens-place, so write a 2 in the tens-place. Have your child write 2 in the answer's tens-place.

	thousands	hundreds	tens	ones
7 I + 5 3				
2 4				

Writing 1 above the hundreds-place makes clear that your child traded 10 tens for 1 hundred. It also previews the trading and recording that your child will do when she adds 3-digit numbers in Unit 14. If your child comments that this step is unnecessary, she may write the 1 directly in the answer's hundreds-place instead.

The only digit in the hundreds-place is 1, so the sum of the digits in the hundreds-place is 1. Have your child write 1 in the answer's hundreds-place. So, what's 71 plus 53? *124*.



Continue in the same way with the other 3 problems in the top row of the workbook page.

For 37 + 95, point out that you trade both the ones and the tens: **In two-digit addition prob**lems, we can trade the ones, or the tens, or both.

For 64 + 43, point out that it's important to write a zero in the sum's tens-place as a placeholder: **If you didn't write a zero in the tens-place, the answer would look like 17 instead of 107!**



Some children resist using the addition algorithm because they prefer to use mental math. If your child does this, praise his mental math skills. Explain that practicing the addition algorithm with two-digit numbers prepares him to solve problems with big numbers that are difficult to add mentally. If he's interested, demonstrate how you use the addition algorithm to solve a problem with many digits.

Activity: Play Spin to Win

Play Spin to Win. See Lesson 14.2 (page 228) for full directions. Use workbook page 22.3A. Spin the paper clip on the spinner twice per turn. Write each number in a blank grid and then find the sum of your two numbers.



Spin twice each turn. Then, find the sum of the two spins.

Alternating plays with your child provides her with many examples of how to correctly solve the problems. Keep a close eye on your child as she records the written steps, and immediately correct any mistakes. Model the problems with base-ten blocks as needed.

Workbook: Review

Have your child complete workbook pages 22.3B.

Lesson 24.2 Polygon Puzzles

	Purpose	Materials
Warm-up	 Count by 3s Practice memory work Review subtraction facts 	 Base-ten blocks Four in a Row game board (from workbook page 11.1A) Counters
Activities	 Identify attributes of triangles and quadrilaterals Identify right angles Develop spatial skills by creating polygons with geometric puzzle pieces 	 Mosaic puzzle pieces (Blackline Master 8), cut apart
Workbook	 Develop spatial skills by filling in outlines with puzzle pieces 	 Workbook pages 24.2A and 24.2B Mosaic puzzle pieces (Blackline Master 8), cut apart

Warm-up: Counting, Memory Work, and Review

- Have your child count by 3s to 30.
- How many centimeters equal 1 meter? 100.
- Play Four in a Row. See Lesson 11.1 (page 176) for directions,

Activity: Sort and Discuss Triangles and Quadrilaterals

In the last lesson, you learned that polygons are flat, closed shapes with straight sides.

We'll use special puzzle pieces to make polygons today. Show your child the cut-apart mosaic puzzle pieces from Blackline Master 8. Give him a few minutes to experiment with the pieces and create designs with them. Allow him to flip the pieces over as needed to make them fit together.



See the Week 24 **Teaching Math with Confidence** for how these puzzle pieces help your child develop spatial skills.

What do we call polygons with 3 sides? *Triangles*. What do we call polygons with 4 sides? *Quadrilaterals*. Have your child sort the mosaic puzzle pieces based on whether they are triangles or quadrilaterals.



Quadrilaterals

Discuss the triangles with the following questions:

- What do the triangles have in common? They all have 3 sides and 3 angles.
- How are the triangles different from each other? Sample answers: G looks more squished than the others. A and C have corners like a piece of paper, but G and F don't. F has all equal sides.
- Which triangle has all equal sides? F.
- Which triangle has two equal sides? G.
- Which two triangles are congruent to each other and have the same shape and size? A and C. Place A on top of C to show that the triangles are congruent to each other.

Discuss the quadrilaterals with the following questions.

- What do all these quadrilaterals have in common? They all have 4 sides and 4 angles.
- How are these quadrilaterals different from each other? Sample answers: D is a rectangle, but B and E aren't. B looks very pointy! E is a trapezoid.

Activity: Review Right Angles

In first grade, you learned that a right angle is an angle that looks like the corner on a piece of paper. Which of the triangle puzzle pieces have a right angle? A and C. Tear off the corner of a piece of paper. Place the corner inside the right angle on each puzzle piece to demonstrate.



Which of the quadrilateral puzzle pieces has a right angle? *D*. How many right angles does puzzle piece D have? 4. Place the corner inside each angle to demonstrate. Rectangles and squares must always have 4 right angles.



Activity: Develop Spatial Skills with a Shape Puzzle

Some of the puzzle pieces can be put together to cover other pieces. Place A and C on top of D to demonstrate.



Which two pieces can you use to cover C? F and G.



Which two pieces can you use to cover B? F and A.



Which two pieces can you use to cover E? A and G, or C and G.

Which 3 pieces can you use to cover D? C, F, and G, or A, F, and G.



Workbook: Practice Spatial Skills and Review

Have your child complete workbook pages 24.2A and 24.2B.

If your child struggles to draw lines to show where he put each piece, have him show you how he completed the outlines instead.

Lesson 25.5 Enrichment and Review (Optional)

	Purpose	Materials
Warm-up	 Count by 3s and 4s Review memory work Review your child's favorite or most challenging activities from Week 25 	 Varies, depending on the activities you choose
Picture Book	• Understand fractions in many real-life contexts	 If You Were a Fraction, written by Trisha Speed Shaskan and illustrated by Francesca Carabelli
Enrichment Activity	 Use measuring cups with fractions to measure ingredients 	 Measuring cups (1/4-cup, 1/3-cup, ¹/₂-cup, and 1-cup) Trail mix ingredients

Warm-up: Counting, Memory Work, and Review

- Have your child count by 3s to 30 and by 4s to 40.
- Quiz your child on the memory work through Week 24. See page 523 for the full list.
- If you have time, repeat one or two of the activities from this week's lessons. Choose activities your child especially enjoyed or found challenging.

Math Picture Book: If You Were a Fraction

Read *If You Were a Fraction*, written by Trisha Speed Shaskan and illustrated by Francesca Carabelli. As you read, point out the written fractions and discuss how the fractions match the illustrations.

Enrichment Activity: Make Fraction Trail Mix

Show your child a set of measuring cups. Have him read the fraction printed on each cup.



How many halves make 1 whole? 2. So, 2 half-cups equal 1 whole cup. Have your child pour 2 half-cups of water into the 1 cup measure to check that this is true. Repeat with 3 third-cups and 4 fourth-cups.



Then, help your child use the measuring cups to make the following trail mix recipe. For $\frac{2}{3}$ and $\frac{3}{4}$, encourage her to think about how to use the $\frac{1}{3}$ cup and $\frac{1}{4}$ cup to measure out the correct amounts. For example: **The recipe says that we need two-thirds of a cup of small crackers, but we don't have a** $\frac{2}{3}$ **cup measure. How could we use the** $\frac{1}{3}$ **cup to help?** *We can use the* $\frac{1}{3}$ *cup twice!*

Fraction Trail Mix Recipe

Mix together in a large bowl:

- ¹/₄ cup of something sweet, like chocolate chips or mini marshmallows
- ¹/₃ cup of dried fruit
- $\frac{1}{2}$ cup of nuts
- ²/₃ cup of small crackers
- ³/₄ cup of small pretzels
- 1 cup of cereal pieces

Feel free to modify the recipe to match the ingredients you have on hand.

Lesson 31.4 Three-Digit Subtraction Word Problems

	Purpose	Materials
Warm-up	Count by 2sPractice memory workReview comparing fractions	 Fraction Bars (Blackline Master 9), cut apart and labeled Fraction Cards (from Lesson 25.2 and 25.3)
Activities	 Solve subtraction word problems Correctly line up the digits in vertical subtraction problems 	Workbook page 31.4APlay money, optional
Workbook	 Review previously-learned material 	• Workbook page 31.4B

Warm-up: Counting, Memory Work, and Review

- Have your child count by 2s from the following numbers. Prompt him as needed, and stop him after he reaches the last number listed.
 - × **Count by 2s from 718:** 718, 720, 722, 724, 726.
 - × **Count by 2s from 496:** 496, 498, 500, 502, 504.
 - × **Count by 2s from 992:** *992, 994, 996, 998, 1000.*
- How many centimeters equal 1 meter? 100.
- Play Fraction War. See Lesson 25.4 (page 409) for directions.

Activity: Solve Three-Digit Subtraction Word Problems

This week, you have learned how to subtract three-digit numbers with the subtraction algorithm. Today, you'll use the subtraction algorithm to solve word problems.

Show your child the chart at the top of workbook page 31.4A. Briefly discuss what your child would want to buy if he were designing his own playset. We'll use the prices in the chart to solve the word problems.



Read aloud the first word problem: **How much more does a spiral slide cost than a regular slide?** Have your child find the cost of each type of slide, write the prices in the blank grid, and subtract to find the difference. Model the problem with play money if your child has trouble.



Repeat with the rest of the word problems on the page. For the second problem, remind your child to align the digits according to their place value. Make sure you line up the numbers so that the ones-place for 235 is right above the ones-place for 73. That way, you'll be sure to subtract the ones from the ones and the tens from the tens.



Workbook: Review

Have your child complete workbook page 31.4B.