Problems and More

Here are some problems you can pose to children. On the next page is a reproducible with problems children can tackle on their own.

1. THE BIG SLEEP

José went to bed at 9 o'clock. Jeremy went to bed at 8:30.

◆ Who went to bed first?

◆ How much earlier did he go to bed?

2. TUMMY MONEY

Bill and Jessica brought snack money to the park. Jessica had 1 quarter, 5 dimes, 3 nickels, and 2 pennies. Bill had 2 quarters, 2 dimes, 1 nickel, and 5 pennies.

◆ How much money does Bill have?

◆ How much money does Jessica have?

◆ Who has more money?

◆ How much money do they have altogether?

3. 36¢

How many different ways can you show 36¢ using pennies, nickels, dimes, or quarters?

4. CALENDAR MATH

Ask children to look at a calendar page for the current month.

◆ What is the date today?

◆ What date will it be 7 days from today?

◆ How many weeks are there until the end of the month? How many days?

◆ How many Saturdays are there in this month?

5. ALL THE WAY AROUND

Pick three things to measure. Find out how many inches they are all the way around. (Some ideas of things to measure: a poster, a desk- or tabletop, a book, a tile on the floor.)

◆ How can you find out how many inches around a ball is?

6. DO I HALF TO?

Tony's mother gave him 12 cookies. He gave half of his cookies to his friend Rodney. When Lucy came home, Tony and Rodney each gave Lucy 2 cookies.

◆ How many cookies did Tony give Rodney?

◆ How many cookies did Tony have left?

◆ How many cookies does each child have after Tony and Rodney give cookies to Lucy?
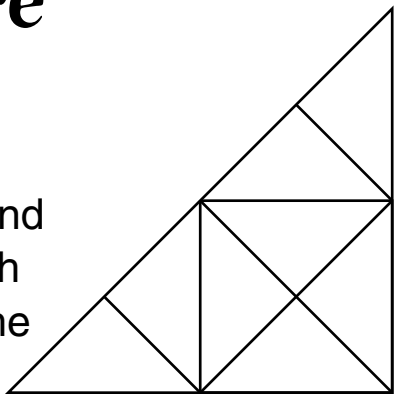
7. THREE-PACKS ON SALE!

Ms. Martinez bought 12 three-packs of juice. How many cans of juice does she have? Draw pictures, or use counters, if you need to.

Answers on page 64.
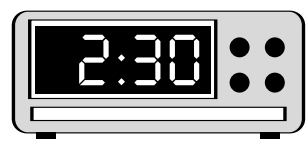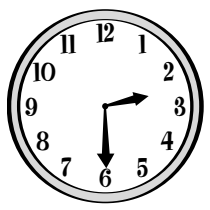
Problems and More

1. TRICKY TRIANGLES

How many triangles can you find
in this shape? Share ideas with
your classmates. Who found the
most triangles?

2. TIME AFTER TIME

How are the clocks the same?
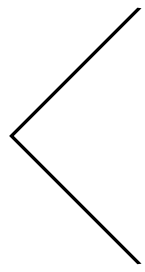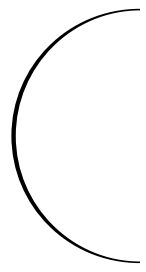How are they different?

_____

_____

3. HALF AGAIN

Draw the missing
half of each shape.

4. A CODE FOR YOU!

ABC	DEF	GHI	JKL	MNO	PQR	STU	VWX	YZ
1	2	3	4	5	6	7	8	9

Use the code. Write your name.
Add to find the value of all the letters in your name.

Name _____ Value _____

Find the value of some other words you know.

Problems and More

Here are more problems you can pose to your class. On the next page is a reproducible with problems children can tackle on their own.

1. SOCK COUNT

Michael helped fold the laundry one day. If he folded 18 pairs of socks, how many socks did he fold in all? Use the quickest way you know to find out.

2. HOW MANY CHAIRS?

Three second-grade classes are going to watch a movie. The first class has 24 children. The second class has 29 children, but 2 are out sick. The third class has 26 children. How many chairs are needed? (Don't forget a teacher in each class.) Draw a picture to help you.

3. NUMBER TWINS

Write some examples of numbers that have the same number of ones and tens. How are the numbers alike?

4. CHECK YOUR ANSWER

How many numbers are greater than 12 and less than 25? Write the numbers.

5. STACK 'EM UP

Len has 12 nickels. If he puts them in stacks of 6, how many stacks will he have? What other ways can Len make equal stacks with 12 nickels?

6. MAKE YOUR OWN!

Give children the information. Ask them to pose problems. See how many different problems children can create with the same facts.

◆ Janell collects 17 stamps. Peter collects 12.

◆ Martha has 20 cookies. Meg has 3 more.

◆ Pilar rode her bike for 10 minutes. Seth rode his bike for 15 minutes.

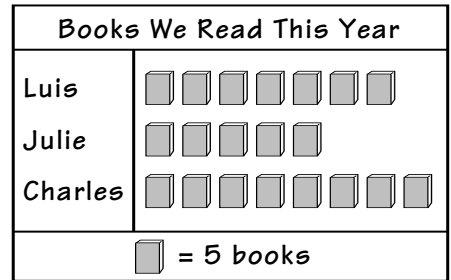◆ Adam has 8 toy cars, Jason has 12, and Jean has 9.

Problems and More

Put on your thinking cap to solve these problems!

1. GRAPH ADDITION

How many books did each person read?

_____

How many books did they read in all? _____

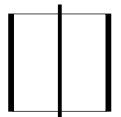| Books We Read This Year	
Luis	☐☐☐☐☐☐
Julie	☐☐☐☐
Charles	☐☐☐☐☐☐☐
	☐ = 5 books

2. PATTERN PIECES

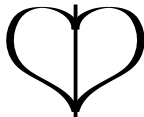There's a number missing in each pattern. Write the missing numbers.

3, 6, 9, _____, 15   1, 2, 4, 8, _____, 32   1, 2, 3, 5, 8, _____,

21

3. ONES, TENS, AND HUNDREDS
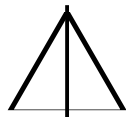
Use 2, 7, and 8. Write all the numbers you can make.

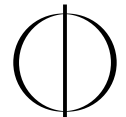Yes No   Yes No   Yes No   Yes No   Yes No

4. Which shapes will make equal sides when they are folded in half?

5. Put numbers in the ☐ to make true number sentences.

☐ + ☐ = 20	☐ + ☐ = 12	☐ + ☐ = ☐
☐ − ☐ = 9	☐ − ☐ = 14	☐ − ☐ = 10

Answers to Problems and More

PAGE 35

1. Jeremy went to bed first, a half an hour earlier.

2. Bill has 80¢. Jessica has 92¢. Jessica has more money. Together they have $1.72.

3. Answers include:
1 quarter, 1 dime, 1 penny
1 quarter, 2 nickels, 1 penny
1 quarter, 1 nickels, 6 pennies
1 quarter, 11 pennies
1 dime, 5 nickels, 1 penny
1 dime, 4 nickels, 6 pennies
1 dime, 3 nickels, 11 pennies
1 dime, 2 nickels, 16 pennies
1 dime, 1 nickel, 21 pennies
1 dime, 26 pennies
2 dimes, 3 nickels, 1 pennies
2 dimes, 2 nickels, 6 pennies
2 dimes, 1 nickel, 11 pennies
2 dimes, 16 pennies
3 dimes, 1 nickel, 1 pennies
3 dimes, 6 pennies
1 nickel, 31 pennies
2 nickels, 26 pennies
3 nickels, 21 pennies
4 nickels, 16 pennies
5 nickels, 11 pennies
6 nickels, 6 pennies
7 nickels, 1 penny
36 pennies

4. Answers will vary.

5. Answers will vary.

6. Tony gave Rodney 6 cookies. Tony had 6 left. Each child has 4 cookies.

7. 36 cans

PAGE 36

1. 17 triangles

2. They show the same time in different ways.

3. Children should complete the shapes.

4. Answers will vary.

PAGE 59

1. 36 socks

2. 80 chairs

3. They have the same digit in each place. Examples: 11, 22, 88.

4. 12 numbers: 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24

5. 2; 2 stacks of 6, 6 stacks of 2, 3 stacks of 4, 4 stacks of 3, 12 stacks of 1

6. Answers will vary. Children should use the information in their problems.

PAGE 60

1. Luis read 35 books; Julie read 25; Charles read 40. In all they read 100 books.

2. 12; 16; 13

3. 2, 7, 8, 27, 28, 72, 78, 82, 87, 278, 287, 728, 782, 827, 872

4. Yes; Yes; Yes; No; Yes

5. Answers will vary. Check to see that sums and differences are correct.