

Sheila's Shipping Company uses these special shipping stamps for postage.

Group A: 10¢	20¢	30¢	40¢	50¢	60¢	70¢	80¢	90¢
Group B: 1¢	2¢	3¢	4¢	5¢	6¢	7¢	8¢	9¢

Complete the puzzles and number sentences to show the postage for each package. Use one stamp from Group A and one from Group B.



Use these puzzles to show the postage for each package for larger shipments. Complete the number sentences.





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Date _



Find the missing number.



Find the missing product or factor.

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•	7) 5 6	3	8	9	4) 1 0 0
10	7	1	10) 1 3 0	Ð	12)120
13	8)64	14	20)100	15	<u>40</u> 5)
16	9 9 9	T	3) 1 5 0	18	<u>17</u> 10)
19	30) 6 0 0	20	50) 1, 0 0 0	2	20) 4 2 0
2	20) 5 0 0	23	<u>4 0</u> 30)	24	60) 1, 2 0 0

Solve one problem in each pair to help you solve the other.



Pick one of the pairs above. Explain how you used one problem to help you solve the other.

Whenever possible, use solutions to earlier problems to help you solve new ones.





Cut the area model in any way that helps you solve the problem. There are twenty-five rows. How many squares per row are there?



Use estimates or list some convenient multiples of 23 to help you.

This time there are only twenty-three rows. How many squares are there per row?





1 Complete the table of multiples of 21.

	1	2	4	5	8	10	20	40	50	80
21										

Complete the area models and division records.





8 Complete this table.

	100	200	400	500	800
21					

Complete.



Solve these on a separate piece of paper.

10	1		13						
21 2 1, 0 0 0	21 9,996	21 7, 7 7 0	21 7, 7 9 1						
🛯 How many 5th g	How many 5th grade classes are in your school?								
About how man	y 5th graders does you	ur school have?							
If there are abou grade, estimate t	it the same number o the number of studen	f students in each ts in your school.							
Generation Challenge Sam Houston now 1,048 ch one have 25 every class, h school need	Many new students en n Elementary School. nildren enrolled. All cl children. To have one now many teachers do ?	enrolled in There are asses except teacher for bes the							



NCTM Standards 1, 2, 6, 7, 8, 9, 10

1 Complete the table of multiples of 37.

	1	2	3	4	5	6	7	8	9
37									

Complete the area models and division records.





Solve these on a separate piece of paper.

8 Use the table of multiples of 37 that you made earlier to solve this problem.



Make a table of multiples of 17 and solve the division problems below.

	1	2	3	4	5	6	7	8	9
17									

9	10	1	12
17)391	17 7 3 1	17 986	17 9,996





Using Multiplication to Check Division

NCTM Standards 1, 2, 6, 7, 8, 9, 10

1 Complete the table of multiples of 28.

	1	2	3	4	5	6	7	8	9
28									

2 Divide, and then check the division with multiplication. Show all your work.

Check:

28 8 9 6

Chapter 8

Lesson 🕤

These division problems were done on a calculator. Check the results by multiplying. If there was an error, please correct it.



Divide and check. Use the table of multiples on LAB page 161, if you wish.

6

Check:

28 2, 3 8 0

6

Check:

28 6, 8 0 4

Challenge The division record shows a quotient with a remainder. Check the division.					
	Check:				
56,2,2 1 5					
1,680					
5 3 5					
504					
3 1					



Find the whole-number quotient and, if present, the remainder. Then write a number sentence that checks the division. You can use a grid to help you.

0	2
7 1 5 7	17)157
Number sentence:	Number sentence:
3	4
10 1 5 7	5)157
Number sentence:	Number sentence:

6

Show quotients with fractions, if needed. Then write a number sentence that checks the division. You can use a grid to help you.

12 1 5 7

Number sentence:

```
6
8 ) 1 5 7
Number sentence:
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Write the answers using whole numbers and remainders, or using fractions if you prefer.

	24 3, 2 6 6	3
9	35 1 1, 9 7 5	<text></text>

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	u			

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Interpreting Remainders in Word Problems

Decide what to do when there is a remainder—ignore it or include it as a fraction or a decimal.

How many 24-foot jump ropes can be made from a rope that is 100 feet long?

Solution:	
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What should you do about the remainder?

2 Nathan used lots of tennis balls when practicing his serve. At the end of practice, he gathered up 59 tennis balls and put them back into cans. If each can holds 3 tennis balls, how many cans will he fill?

Solution: _____

What should you do about the remainder?

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Altogether, the 32 students in Ms. Rosenfeld's class raised \$456 at the bake sale. The money will be divided up to pay for each student's admission and snack for a field trip. How much money is available for each student?

Solution:	

What should you do about the remainder?

3

 My large plastic bottle holds 196 ounces of water. How many cups of water is that? (1 cup 8 oz)

Solution: _____

What should you do about the remainder?

5 The bagel bakery advertised a "Baker's Dozen Sale": buy a dozen bagels and get an extra bagel free. The first batch they made was 20 dozen bagels. How many bags of 13 bagels will that make?

Solution: _____

What should you do about the remainder?

6 Challenge A rope is 408 ft long. If it is cut into 32 shorter pieces, what is the length of each piece? Write your answer in feet and inches.

Solution: _____

What should you do about the remainder?

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Another Option for Interpreting Remainders

Decide what to do when there is a remainder—ignore it (round down), include it as a fraction or a decimal, or round up.

Four classes of fifth graders—a total of 107 students and adults—will travel by bus to Colonial Jamestown for a field trip. Forty-four people may ride on one bus. How many buses will be needed?

Solution: _____

What should you do about the remainder?

2 180 people bought tickets to see a play. 22 people can fit in each row of seats. If the people fill in as many rows as possible, how many rows will have people seated in them?

Solution: _____

What should you do about the remainder?

The Cape Cod ferry can take 30 cars at a time. How many trips must the ferry make to take 366 cars?

Solution:		
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What should you do about the remainder?

Ms. Lawrence wants to give some special pencils to her 26 students. If she orders 11 dozen pencils and wants to give each student the same number of pencils, how many pencils will each student get?

Solution: _____

What should you do about the remainder?

S Marya was surprised when she saw on her pedometer that she had walked 135 miles in the last 30 days. If she walked about the same distance every day, about how many miles did she walk each day?

Solution: _____

What should you do about the remainder?

Challenge We laid pencils side by side until the total width was a whole number of inches. We found that 24 pencils, side by side, measured 7 inches. We found some boxes that were 3¹/₂ inches wide and held only one layer of pencils. How many of the smaller boxes would we need to hold 100 pencils? Explain.

Solution: _____

What should you do about the remainder?



Solve. Show your work.

Juan's father baked 6 dozen cookies for Juan's birthday party. If Juan and his ten friends share the cookies equally, how many cookies will be left for Juan's father?

2 Tia loves celebrating her birthday. One day she said she was 10 years and 135 days old. That means there were 230 days until her next birthday. How many full weeks were there until her next birthday?

How many extra days were left?

Three friends want to share two candy bars equally. How much will each friend get? Draw a picture that might help you explain why your solution is correct.

Problem Solving Test Prep

Choose the correct answer.

1 Ryan divides his model car collection 2 Jada stacks boxes to make a pyramid into groups of 8 cars. There are display in a store window. Each row 3 cars left over. How many cars has one fewer box than the row would be left over if he divided his below it. If the bottom row has collection into groups of 4? 9 boxes, how many boxes are in the display? **A.** 8 **A.** 35 **B**. 6 **B**. 45 **C**. 3 **C**. 55 **D.** 2 **D**. 72

Show What You Know

Solve each problem. Explain your answer.

- The streets in Morgan's town run north-south and east-west. She leaves her house on her bike, rides 5 blocks north, 4 blocks east, 6 blocks south, and 1 block west. What is the least number of blocks she must ride to get home?
- Albert, Carlo, Jamie, and Steve do odd jobs on the weekends. One Saturday, Albert earned more than Carlo but less than Jamie. Steve earned more than Jamie. Using this information, is it possible to put the boys in order from greatest to least earnings? If so, put them in order, and explain your answer. If not, explain what other information you would need.



Find the missing product or factor. Lessons 1 and 2



Use this table of multiples of 23 to help you with Problems 7 and 8.

	1	2	3	4	5	6	7	8	9	10
23										

7 Complete the area model or the division record to find

874 23. (You don't have to complete both.) Lesson 2



B Divide, and then check your division with multiplication. Show all your work. Lessons 3 and 6

Check.

23) 9 8 9

3 3 19 🛆 CLXXI one hundred seventy-one 171

Find the answers to the following problems. Lessons 3 and 7

Write the answer using whole numbers.	Divide. Write the remainder as a fraction.
24 6 2 6	34)880
Theresa created a card game that	t used 102 cards. She

Theresa created a card game that used 102 cards. She could fit 8 cards on a sheet of paper. How many sheets of paper did she need to make the cards? Lessons 3, 8, and 9

Solution: _____

What should you do about the remainder?

Solve the problem. Show your work.



A painting is 17 inches tall. Its area is 374 square inches. It hangs in the center of a wall that is 98 inches wide. How far is each side the painting from the ends of the wall? Lesson 10

Explain how you solved the problem.