



For each diagram, complete the column in the table below.



Name \_

**Chapter 9** 

## **Connecting Multiplication** Lesson 2 and **Division** NCTM Standards 1, 2, 6, 7, 8, 9, 10

For each problem, complete the number sentences on the left. Circle the sentence that matches the story. Then write the fact family for that sentence on the right.

	Sentences	Story	Fact Family
1	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Three north-south avenues cross our town. Six east-west streets cross those avenues. How many intersections are there?	6 3
2	4 8 8 4 4 8	Four north-south avenues cross our town, and eight east-west streets cross our town. Those are our only roads. How many roads do we have?	
	45       5         5       45         45       5         45       5         5       7	When Midori wraps a birthday present, she always uses <b>5</b> pieces of tape. She used <b>45</b> pieces of tape to wrap birthday gifts this month. How many gifts did she wrap?	

Write a story to match each number sentence.

<b>4 3 7 4</b>	
•	
<b>48 8</b>	
6 Challenge Write a multifamily using the number one of the number senter	tiplication and division fact <b>56.</b> Then write a story about nces.



## Write a number sentence to find the number of small squares hidden behind each figure.



## Write the number of small squares hidden behind each shaded rectangle. Then complete a number sentence for the entire figure.



Challenge Draw a rectangle to match the number sentence.
 3 15





#### Write the number of squares in each section. Then complete a multiplication sentence for all the squares in the array.

**Example:** 



3 Eric planted 4 rows of cucumber plants last year, with 7 plants in each row. This year he added
2 more rows with 7 plants in each row. Write a number sentence to show how many plants he has now.



#### Write the number of squares in each section. Then complete a multiplication sentence for all the squares in the array.





For each diagram, write the number of squares in each part. Then write a multiplication sentence for the entire array.



Draw a line to cut each of the arrays into 2 smaller arrays. Use the smaller arrays to figure out the number of squares in the entire array.



Sol's store sold pens in packs of 5. Today, Sol sold 16 packs of pens. Ten of the packs contained black pens, and the rest had blue pens. How many pens of each type did Sol sell?

b	lack pens	and	blue	pens
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Challenge Draw a picture to show how you can use the numbers you wrote in Problem 7 to help you solve 16



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

Complete the Cross Number Puzzle and the multiplication sentence to match each separated array.











## Draw and label an array to match each Cross Number Puzzle. Then complete the puzzle.





Date/Time \_



Two numbers have a product of 54.
 Their difference is 25.
 What are the numbers?

2 The bookstore has 48 books displayed on 3 shelves. Each shelf has 4 more books than the shelf above. How many books are on each shelf?



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Eleven friends shared 143 trading cards equally. How many cards did each friend get?

## **Problem Solving Test Prep**

## Choose the correct answer.

Which numbers make a fact family shown by the array?



**A.** 3, 7, 10 **C.** 3, 9, 27

- **B.** 3, 7, 21 **D.** 3, 8, 24
- 2 The numbers on the cube below are counting numbers, starting with 1. Rita tosses the cube one time. Which list shows all possible outcomes?
  - **A.** 1, 3, 5
  - **B.** 1, 3, 5, 6
  - **C.** 1, 2, 3, 4, 5
  - **D.** 1, 2, 3, 4, 5, 6



Which pair of numbers would NOT make a true number sentence?

	+ $=$ 23
<b>A.</b> 12, 13	<b>C.</b> 14, 9
<b>B.</b> 11, 12	<b>D.</b> 15, 8

The clocks let you find how long it takes Lia to get to school. What fraction of an hour does it take her to get to school?



## Show What You Know

## Solve the problem. Explain your answer.

Use the graph at right. How many students were absent on Monday? Explain.



Name \_



#### For each diagram, write the number of squares in each part. Then write a multiplication sentence for the entire array.



# Write a multiplication sentence to describe the array. Lesson 3

5	Image: state stat	5	
6	100       100       100       100       100         100       100       100       100       100         100       100       100       100       100		
Write t	the fact family for the story	<b>Y.</b> Lesson 2	_
Jared to 7 playe	d passed out 56 playing pieces players. How many pieces did er get?	each	
8 Stacy for s take	y bakes a dozen muffins each nacks. How many months doe her to bake 132 muffins?	month s it	
Ther Ten a truck How	e are 100 vehicles in the parki are motorcycles. The rest are c cs. There are twice as many ca many cars are in the parking	ng lot. ars and rs as trucks. lot? Lesson 7	