

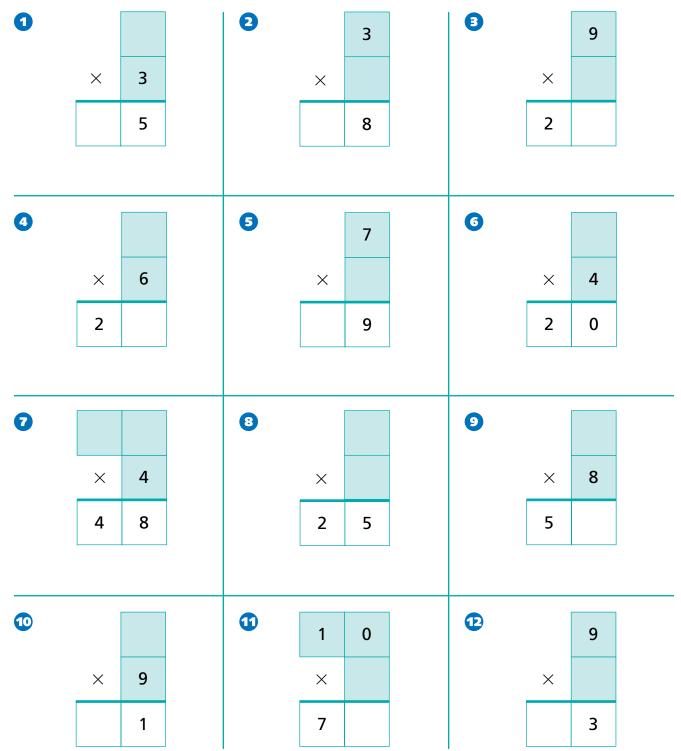
Multiplication Puzzles

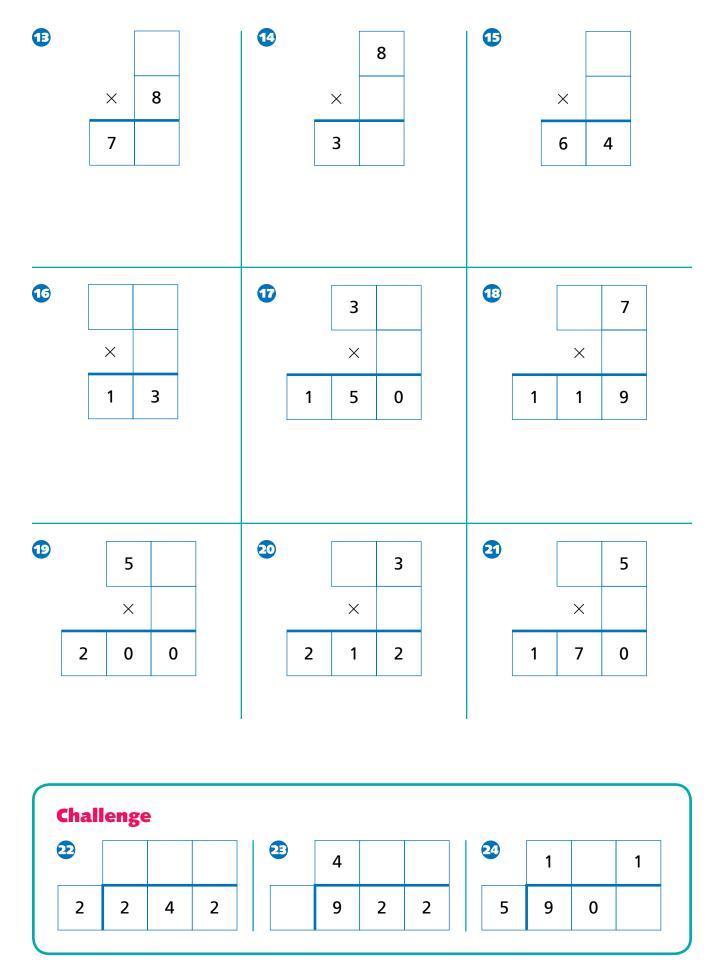
NCTM Standards 1, 2, 6, 7, 8, 9, 10

Complete each puzzle.

Chapter 6

Lesson 1





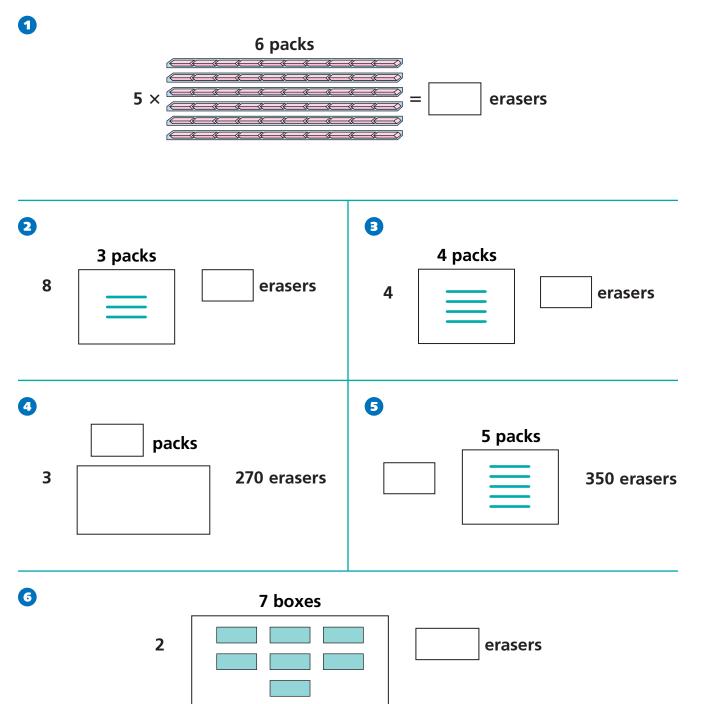
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102 one hundred two CII 2 3 17

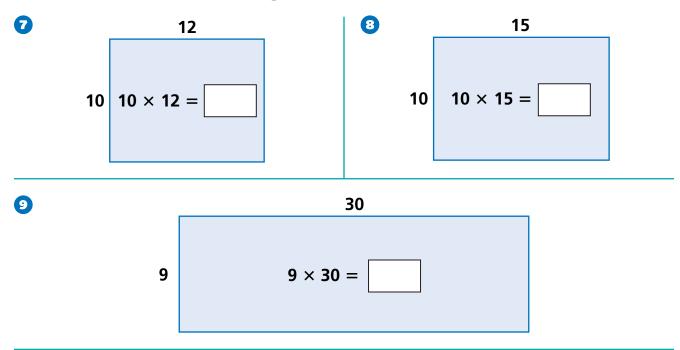


Remember the Eraser Store? They sell erasers, and package 10 erasers in a pack, 10 packs in a box, and 10 boxes in a crate.

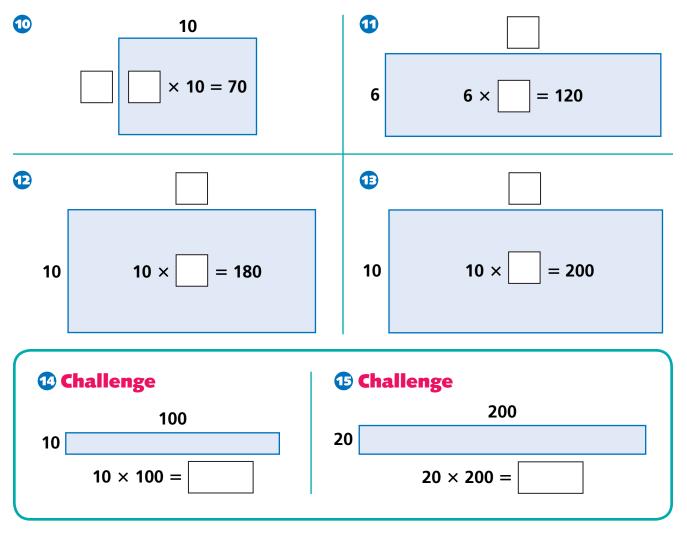
Find the number of erasers.



Find the area of each rectangle.

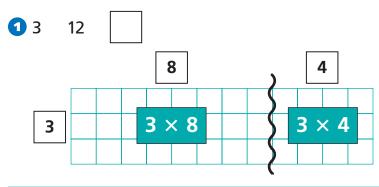


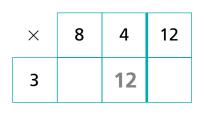
Find the missing length.

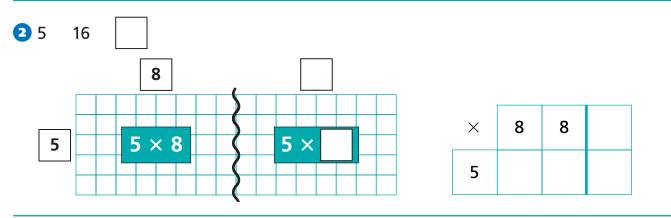


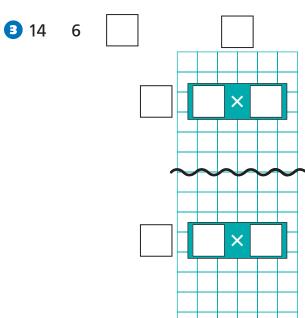
	Name				Date
Chapter 6	_				_
Lesson 🔒	Using	Arra	ys to	Mode	
	Multi	plicat	ion		
	NCTM Standards				

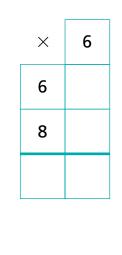
Complete each chart to find the number of squares in each array.



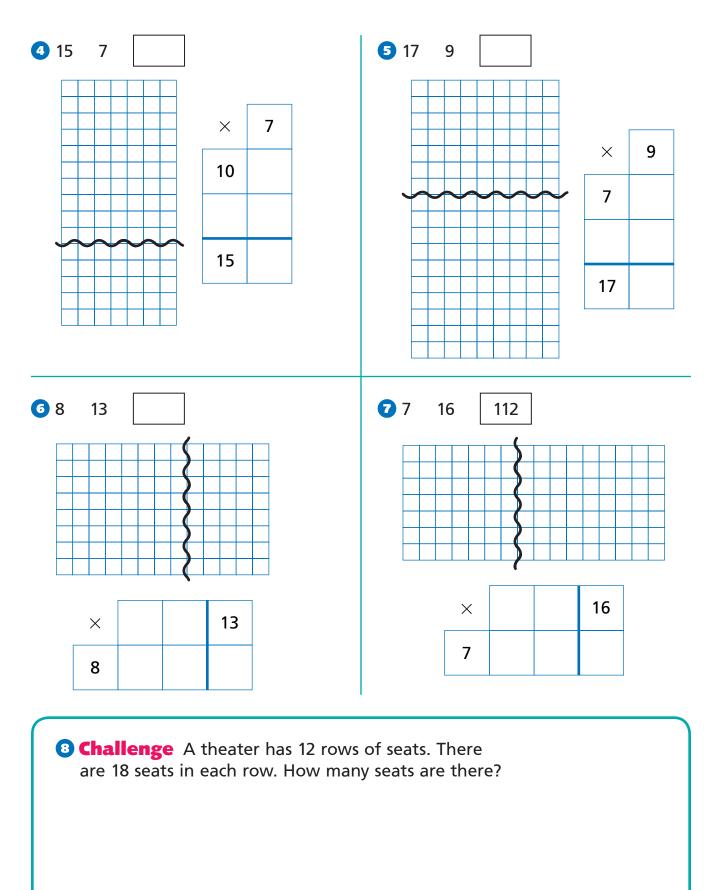








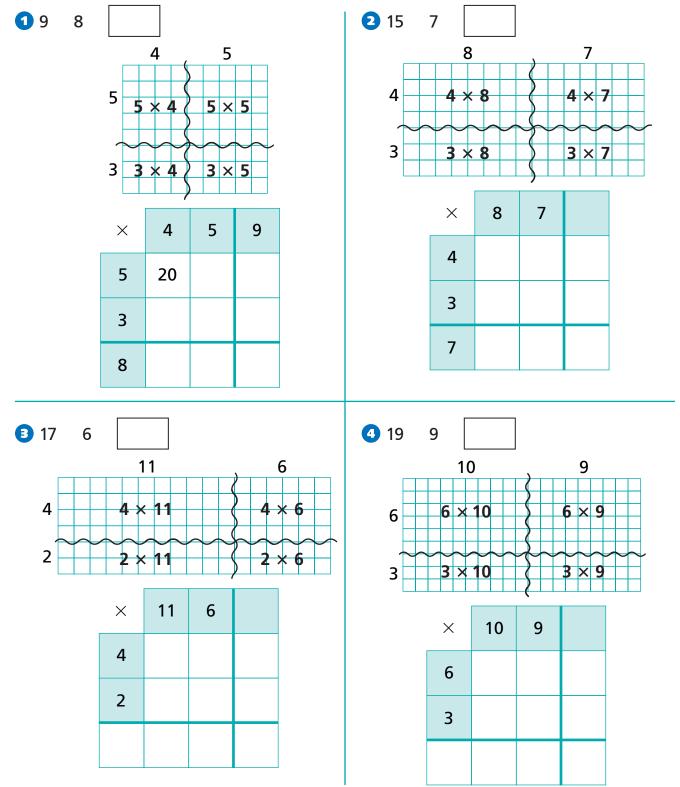
3 5 7 \triangle CV one hundred five **105**

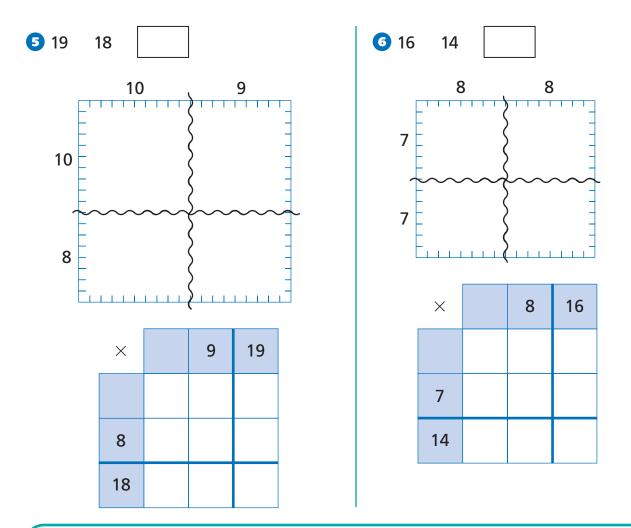


seats

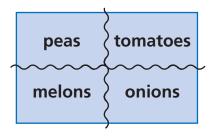


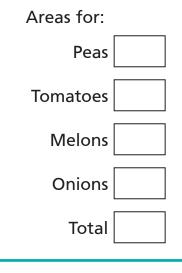
Use the arrays and charts to solve the multiplication problems.



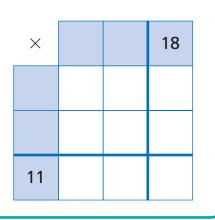


Challenge Jenna is planting a garden that is 11 feet long and 18 feet wide. She wants to plant peas, tomatoes, melons, and onions in separate rectangular sections. Suggest a way she might separate the garden to match the diagram at the right.



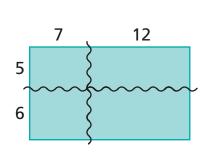


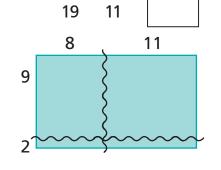
Find the areas of the sections you suggest.

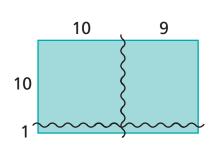


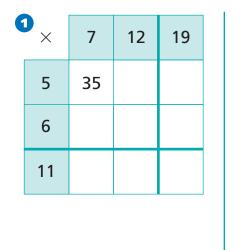


Solve the multiplication problems.









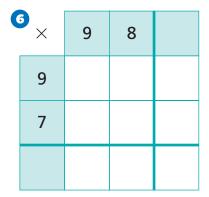
×	8	11	19
9			
2			
11			

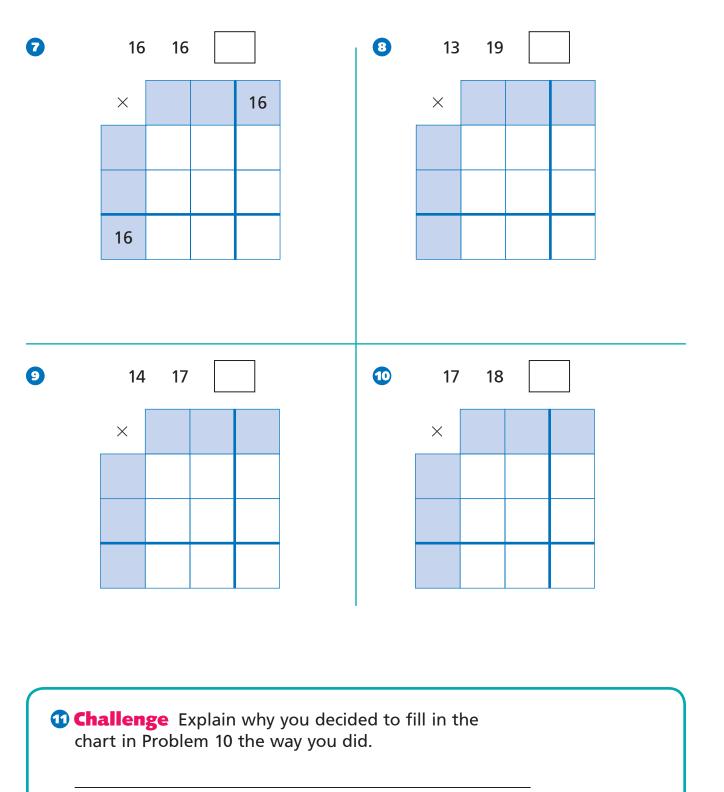
16

17

3 ×	10	9	19
10			
1			

4 >	<	11	6	17	e	×	10	7	
8	3					6			
						16			





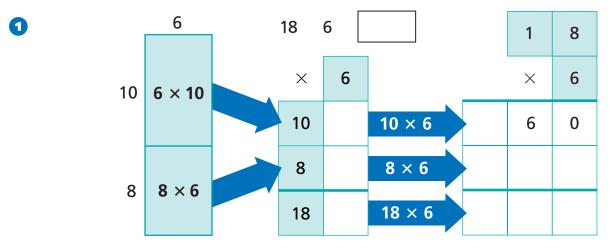
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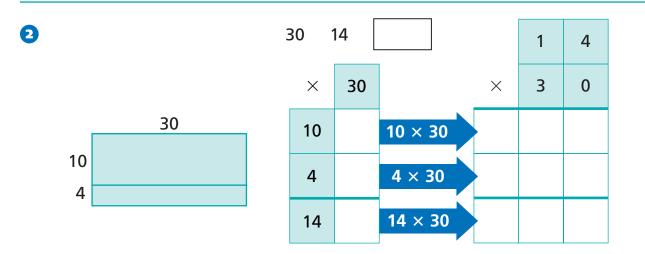
Chapter 6

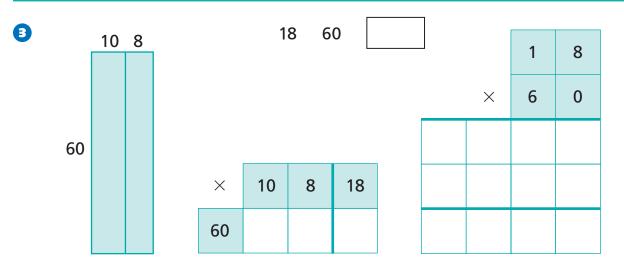
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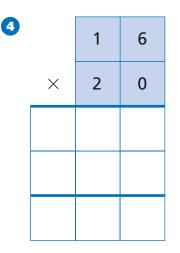


Fill in the boxes to complete each problem.









5		4	0
	×	1	7

6		2	5
	×	6	0

\$

0		5	0	(3		8	0		9		4	1
	×	3	8			×	1	9			×	9	0
									-				

Challenge Rachel's mom bought 30 books at the book fair. Ten of the books cost \$12 each, and the rest of the books cost \$11 each. How much did she spend?

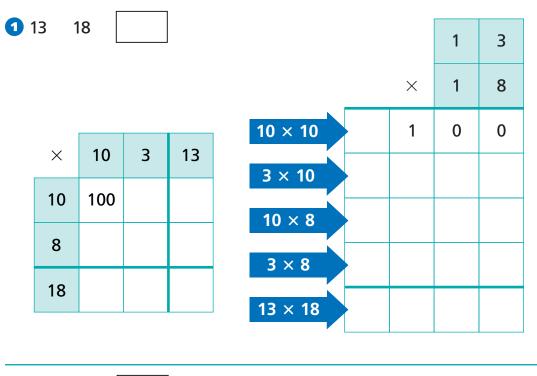
112 one hundred twelve CXII 2 2 2 2 7

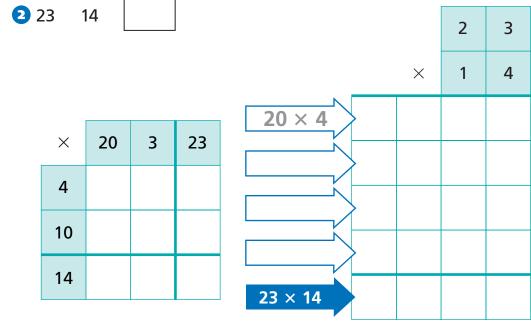




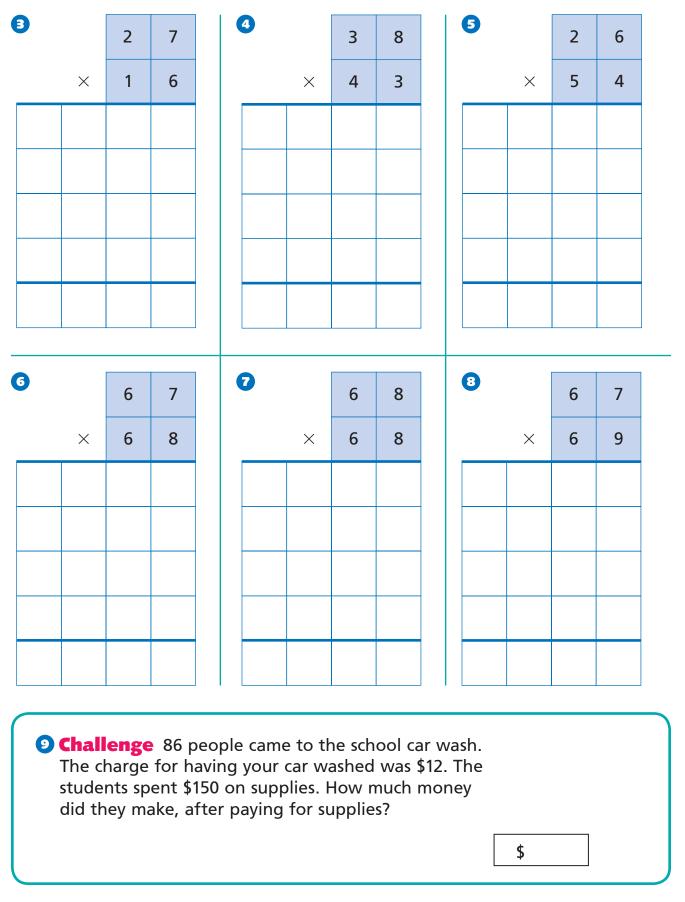
NCTM Standards 1, 2, 6, 7, 8, 9, 10

Use the chart and vertical record to help you complete each problem.





Find the products. Record your work in the boxes below each problem.



Date _

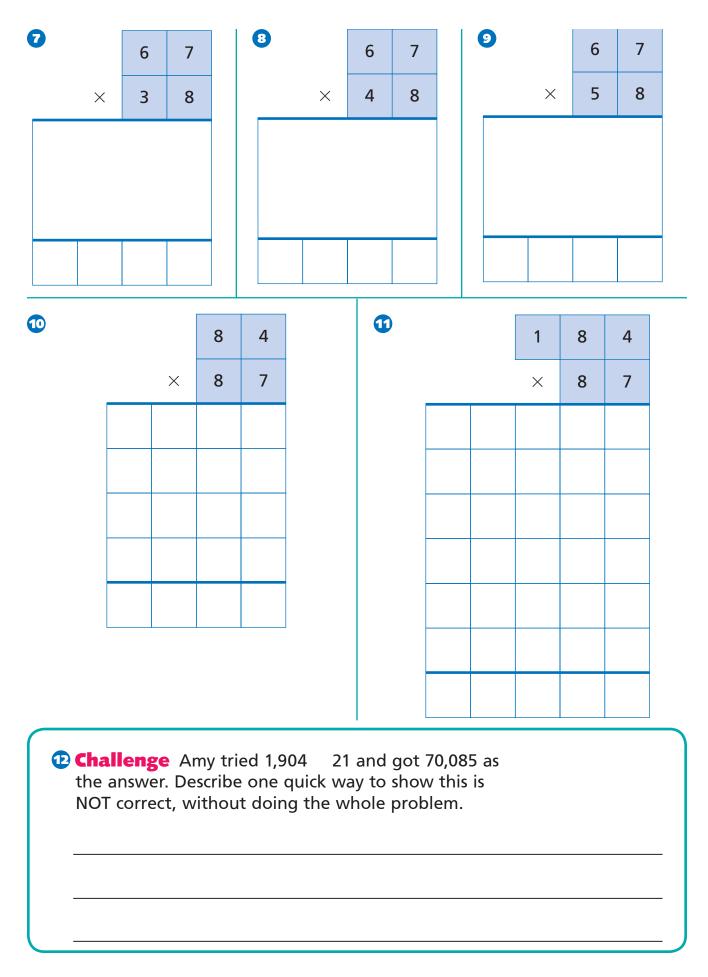
Name _

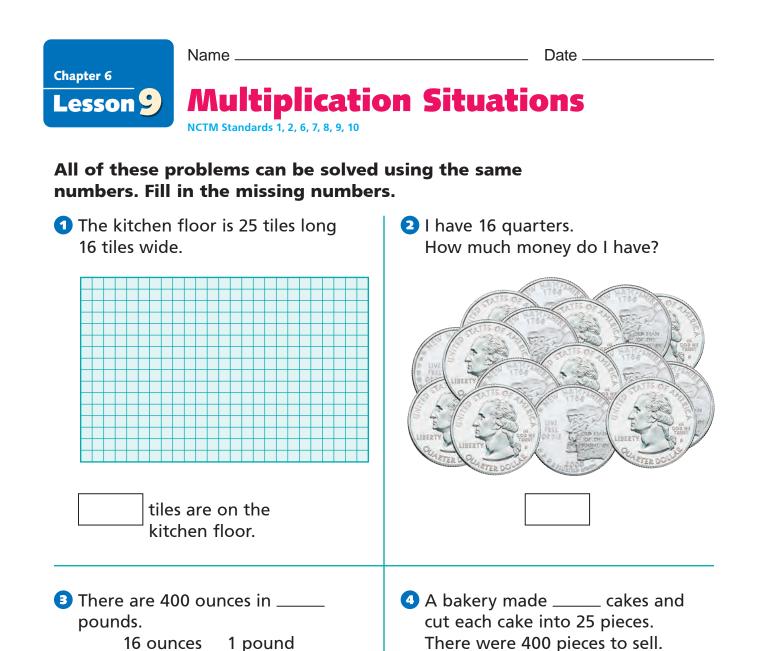


Look for ways to make the multiplication easier. Record as much of your work as you need.

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

		6	7		2		3	5		3		3	2
	×	2	3			×	2	6			×	6	5
)		5	2]	5		8	4		6		7	
)	×	5	2 8		5	×	8 7	4		6	×	7	
•	×				6	×]	6	×		
•	×				5	×				6	×		
•	×				3	×				6	×		
•	×					×	7	6		6	×		





5 There are 16 classes in the school. Each class has students. There are 400 students in the school.

Write another problem that can be solved using 16 25 400.

Ms. Johnson's students raise money for charity at the school store. They sell school supplies to the other students. Solve these problems about the store.

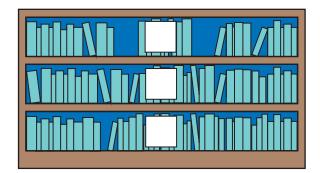
	SCHOOL	STORE	
E	raser 19¢	Pencil	
E	Black Pen 47 ¢	Red Pen 96¢	
A box of markers as much as one er does a box of mar	aser. How much	-	ool store 27 hours re 26 students in any hours do
		hours	
9 Ms. Yee bought 3 and 26 erasers. Ho did she pay?	•	Red pens come in 48 pens. How mu entire pack cost?	uch would an
Challenge Or 17 students each black pen. How they spend all the	ch bought one v much money did	Challenge The earned \$28 this viscore is open 34 year. If the store much money eve how much money	week. The weeks per earns this ry week,



The sum of two numbers is 25, and their product is 156. What are the numbers?



2 All of Laura's 105 books are on 3 shelves. Each shelf has 5 more books than the shelf above it. How many books are on each shelf?



7

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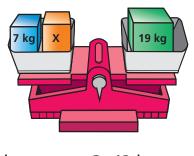
Eight friends shared \$192 equally. How much money did each friend get?

17 CXIX one hundred nineteen **119**

Problem Solving Test Prep

Choose the correct answer.

What is the weight of box X on the scale?



- A. 26 kg
 B. 25 kg
 C. 12 kg
 D. 11 kg
- What product can you find using the array?

		×		9	
		10	100	90	
			20	18	
Α.	10	9	C	. 12	19
Β.	10	12	D	. 19	28

Which number completes the magic square?

	4	20	9
	16	11	6
	13	2	
A. 18		C . <i>′</i>	15
B. 17		D . <i>'</i>	14

- Which set of measures is ordered correctly from least to greatest?
 - A. 3 pints, 2 quarts, 5 cups
 - B. 1 gallon, 6 quarts, 11 cups
 - C. 2 gallons, 9 quarts, 24 cups
 - D. 1 gallon, 5 quarts, 21 cups

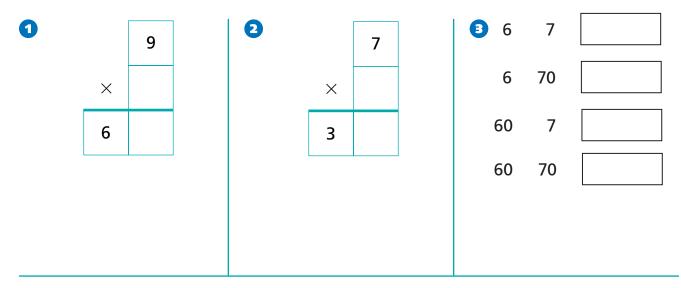
Show What You Know

Solve each problem. Explain your answer.

S Ralph has 20 coins. He makes 4 stacks so that each stack has a different number of coins. What is the largest number of coins he could put in any stack? Explain.



Solve. Lessons 1 and 2



4 Use the array and the chart to solve the problem. Lessons 3, 4, and 5

18 26

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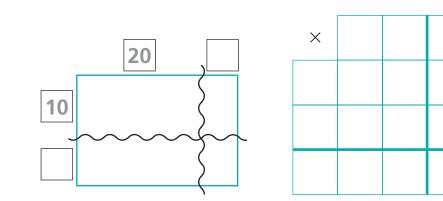
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Find the product. Lessons 6, 7, and 8

5			4	3		6		8	0		7				2	3
		×	4	3			×	7	5				×		1	3
									^							
 Solve. Lesson 9 Stephen read for 30 minutes each night. He read 13 pages per night. How many pages had he read after 14 nights? 								Julie unpacked 22 boxes of library books. Evan unpacked 19 boxes of library books. Each box held 28 books. How many books did they unpack?								
							_ pages									_ book

Mr. Myer's class is planning a field trip to the science center. Twelve students and six adults will be on the trip. The total cost for tickets will be \$216. Each adult ticket costs \$3 more than each student ticket. How much is each student tickets? Explain your answer.