Skip-Counting and Equivalent Sets Making a Quilt

Make a quilt by arranging squares in a pattern.



Chapter **11**

Arrange your squares to make a rectangle. Howmany different rectangles can you make with all four squares?

Draw the different rectangles.

You need

- 4 squares of paper or cloth
- regular or fabric markers



nvestigation

_ rectangles



Combine your squares with the others in your group. Make a big quilt in the shape of a rectangle. Draw the quilt



Decorate the quilt with a pattern. Describe your pattern.





School-Home Connection

Dear Family,

Today we started Chapter 11 of *Think Math!* In this chapter, I will explore how to multiply by combining equivalent sets and how to divide by making fair shares. There are NOTES on the Lesson Activity Book pages to explain what I amlearning every day.

Here are some activities for us to do together at home. These activities will help me understand multiplication and division

Love,

Family Fun

How Many?

Work with your child to play this game. Your child will play a similar game in Lesson 2.

You will need a recording sheet like the one shown below, a number cube, and pennies or other small items like buttons or cereal pieces.

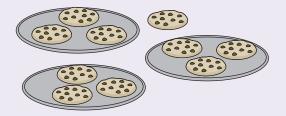
How many items are in each set?	How many items are there in all?

- You and your child take turns. For each turn, toss a number cube two times. The first toss shows how many items to put in a set. The second toss shows how many sets to make.
- Find the total number of items.
- Play until you and your child each take 5 turns.

Sharing Cookies

Work with your child to share amounts of cookies fairly.

- You will need 3 plates and a handful of cookies or other small food items.
- Count out any number of cookies into a pile.
- Together, see if the cookies can be shared fairly among 3 people by placing the cookies on the plates.



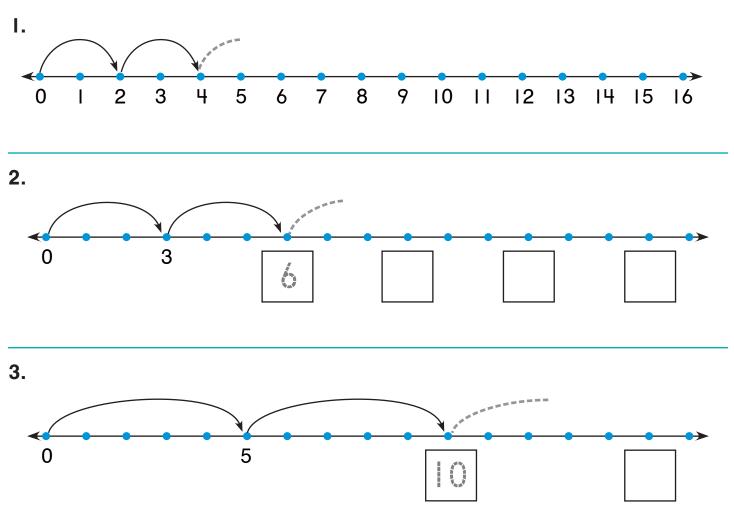
Could you share the cookies fairly? Try other amounts of cookies and see which amounts can be shared fairly and which cannot



Chapter 11 Lesson

Looking For Patterns in Jumps

Skip-count on the number lines. Label your jumps.



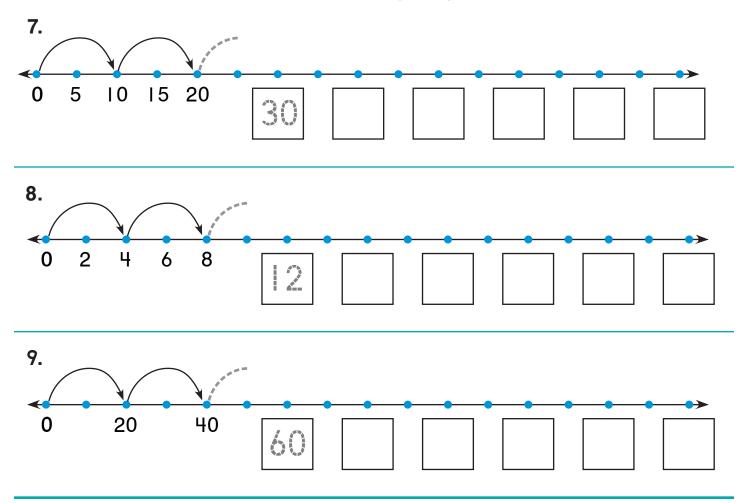
What numbers come next in each pattern?

		lst	2nd	3rd	4th	5th	6th	7th	8th	9th
4.	2	2	4							
5.	3	3	6	A REAL						
6.	5	5	10							



F

Skip-count on the number lines. Label your jumps.



What numbers come next in each pattern?

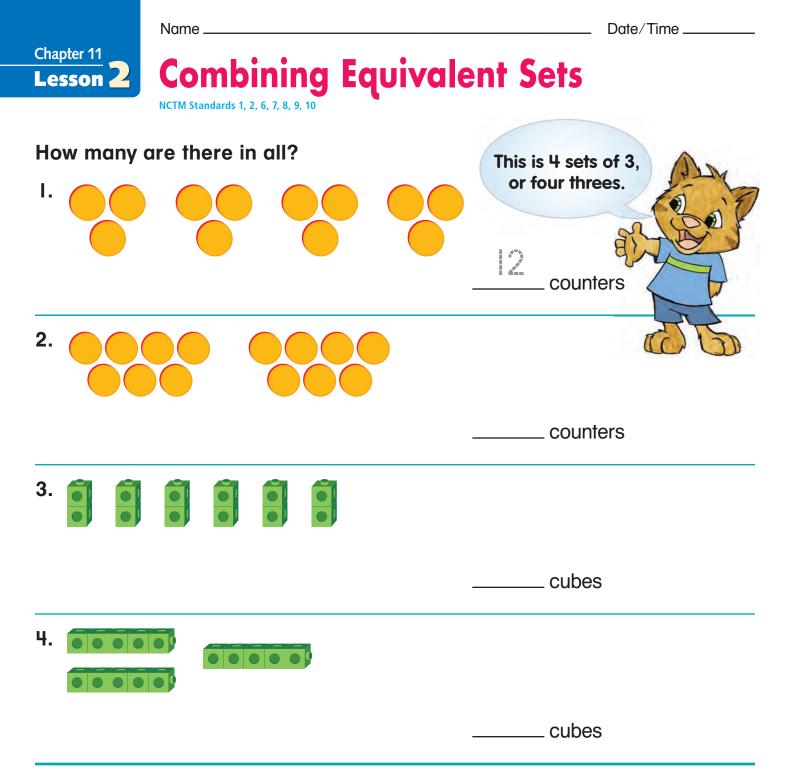
10.	10	10	20				
н.	4	4	8	2			
12.	20	20	40	60			

Problem Solving

13. Mike gets I nickel each day. How much money will he have in 7 days? Explain.

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5. Draw equivalent sets. Find how many in all.

NOTE: Your child is learning to combine equivalent sets of objects and find the total.

Draw sets of circles. How many are there in all?

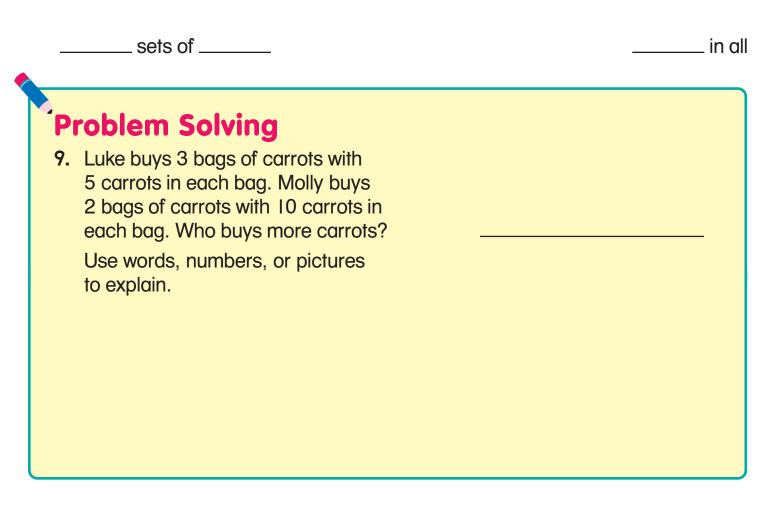
6. 3 sets of 6



7. 4 sets of 5

_____ in all

8. Make your own.

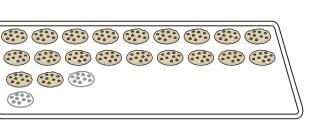


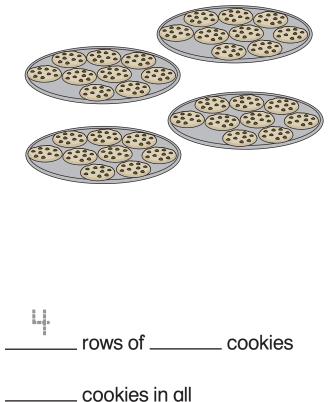


Organizing Equivalent Sets NCTM Standards 1, 2, 6, 7, 8, 9, 10

There will be 4 children at Lynn's party. Each child will get 9 cookies. How many cookies does Lynn need to make?

 Put the cookies in rows so they are easier to count. Draw them on the cookie sheet. Write how many.





CCXLV two hundred forty-five 245

2. Now draw the cookies in this grid. Write how many.

columns	rows and			I				1
	_ cookies in all							
					 /		r chilc object	
011		7	9				unting	

49 \ /

What is missing?

ſ			ų			
Number of rows	Number in each row	Total		Number of rows	Number in each row	Total
3	L	12		2		
5.			ć).		
Number of rows	Number of columns	Total		Number of rows	Number of columns	Total
	5					
7.			8). 	Image: Second	
Number of rows	Number of columns	Total		Number of rows	Number of columns	Total
	3					

Problem Solving

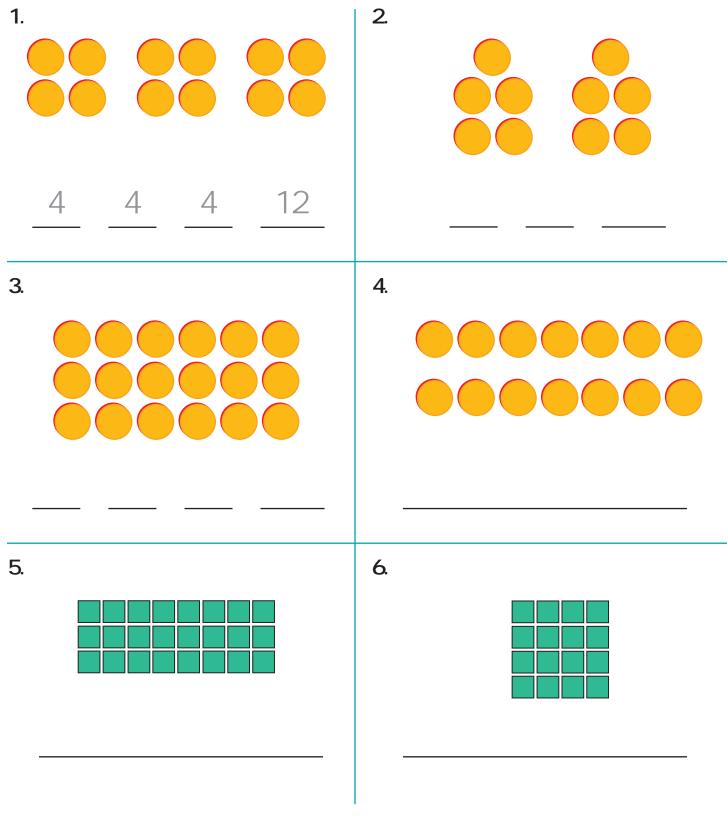
 Bob has 3 rows of 8 chairs. How else could he put all of the chairs in equal rows? Use words, numbers, or pictures to explain. © Education Development Center, Inc.

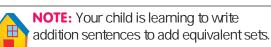
Chapter 11 Lesson 4

Adding Equivalent Sets

NCTM Standards 1, 2, 5, 6, 7, 8, 9, 10

How many are there in all? Write an addition sentence.





The town keeps track of how many vehicles use their bridge every day.

	Vehicle	es l	Jsin	g tł	ne E	Brid	ge ⁻	Tode	ay
icle	cars	•	.	•	:	:		:	
Vehicle	trucks	.		.					
d of	vans	.	.	.					
Kind	buses	•	•						
					•				

Key: Each 🙂 stands for 8 vehicles.

Write an addition sentence to find the total for each kind of vehicle.

7.	cars	 	cars
8.	trucks	 	trucks
9.	vans	 	vans
10.	buses	 	buses

II. Write your own question about the pictograph. Show how to solve the problem.

Problem Solving

12. Alex wrote 3 3 3 3 3 3 15 for an array. What other number sentence could he write for the same array?

Draw a picture to explain.

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Date/Time_

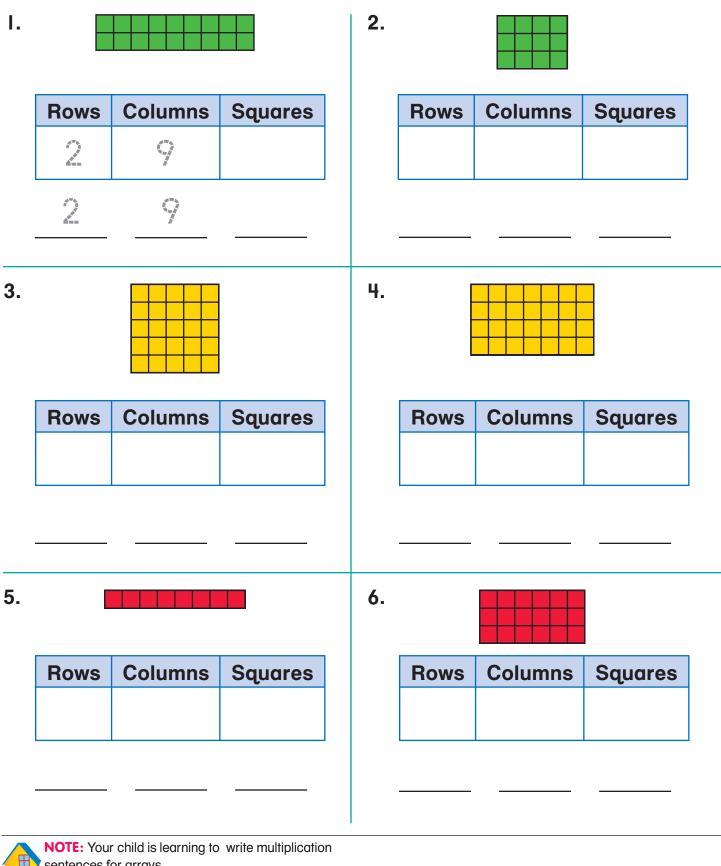
Working with Rectangular Arrays

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

What is missing?

Chapter 11

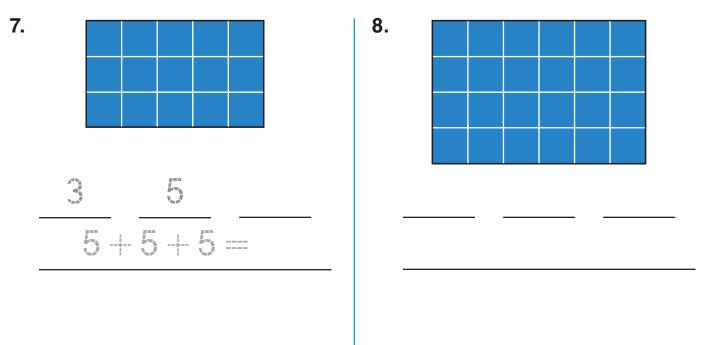
Lesson 与



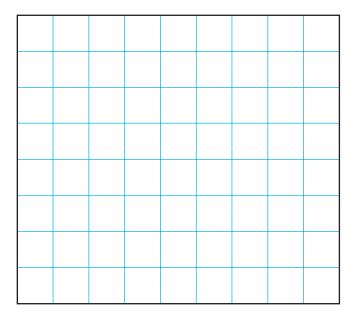
sentences for arrays.

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Write one addition sentence and one multiplication sentence for each array.



9. Make your own array.







250 two hundred fifty CCL

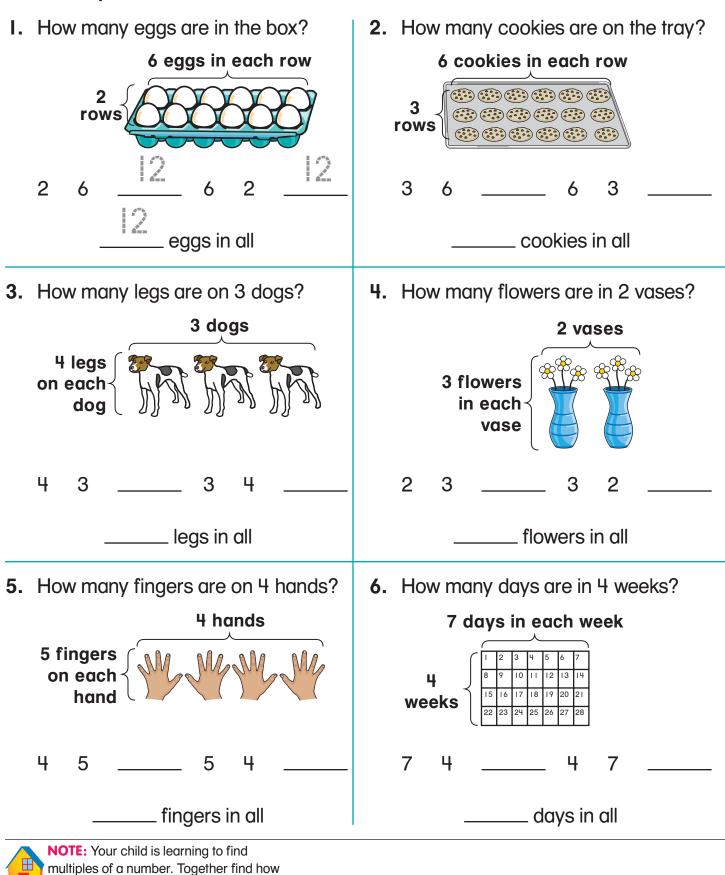




Chapter 11

Building Multiples NCTM Standards 1, 2, 6, 8, 9, 10

How many are there?



many shoes are in the house.

Complete each table.

7. How many wheels are on 9 tricycles?



Number of Tricycles	I	2	3	4	5	6	7	8	9
Number of Wheels	3								

8. How many legs are on 9 chairs?

					U				
Number of Chairs	I	2	3	4	5	6	7	8	9
Number of Legs		00							

9. A spider has 8 legs. How many legs do9 spiders have? Make a table to find out.

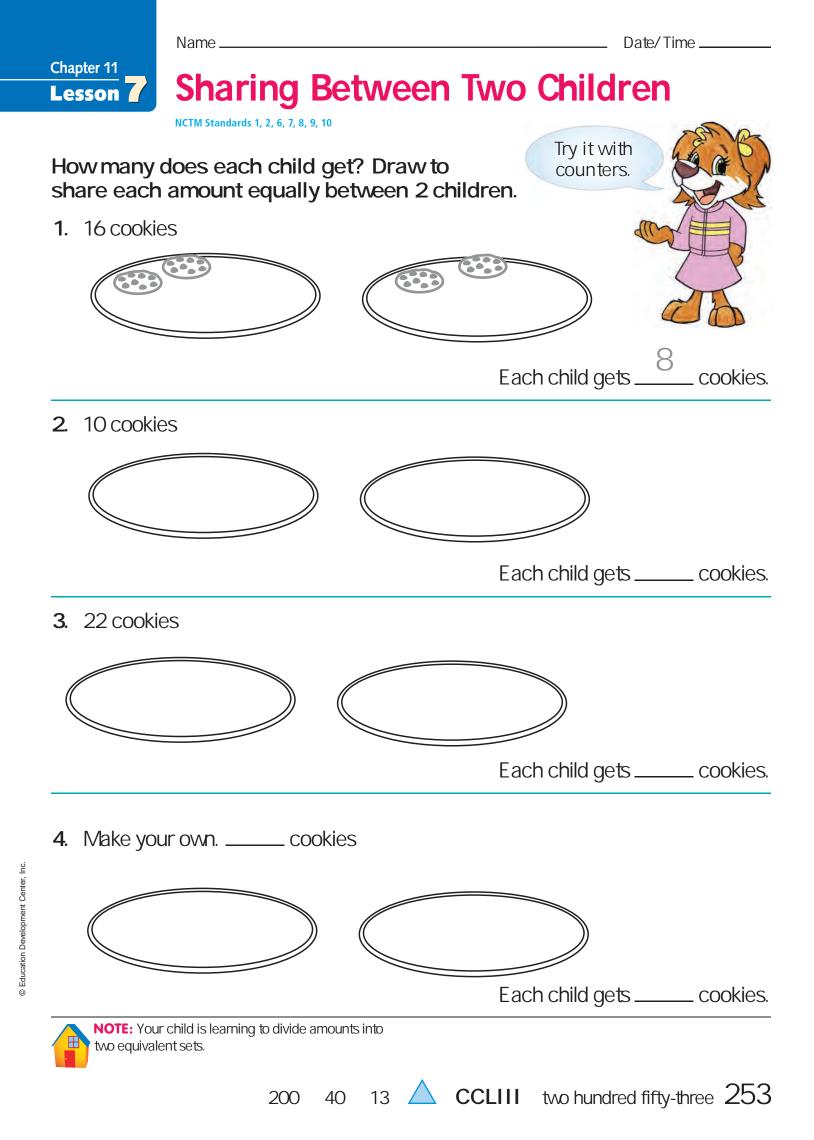
_____ legs

 Problem Solving

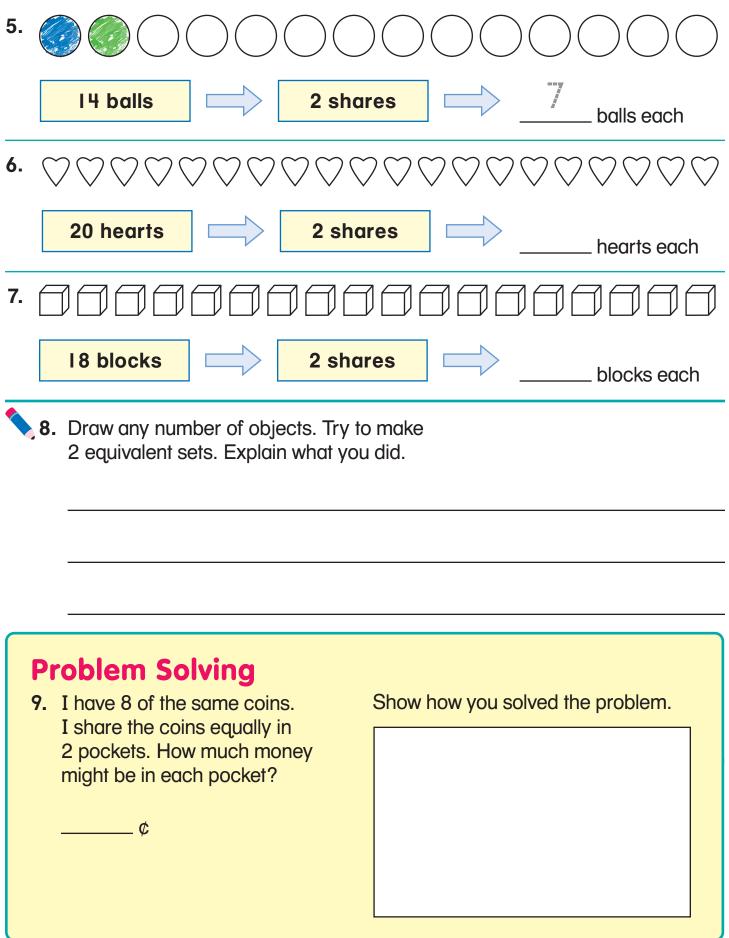
 10. Steve has 6 weeks to finish a project. There are

 7 days in a week. How many days does Steve

 have to finish the project?



Share each amount in 2 equivalent sets. Use a different color for each set.

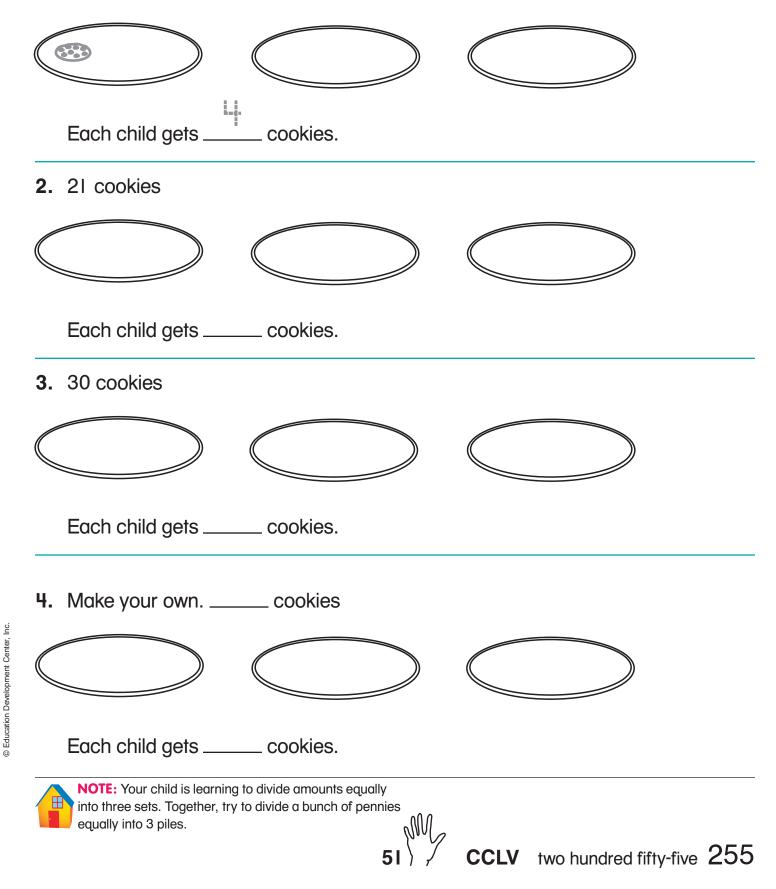




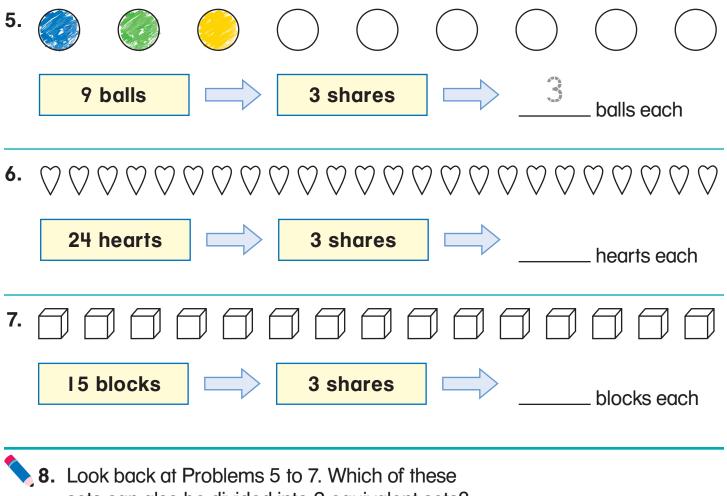


How many does each child get? Draw to share each amount equally among 3 children.

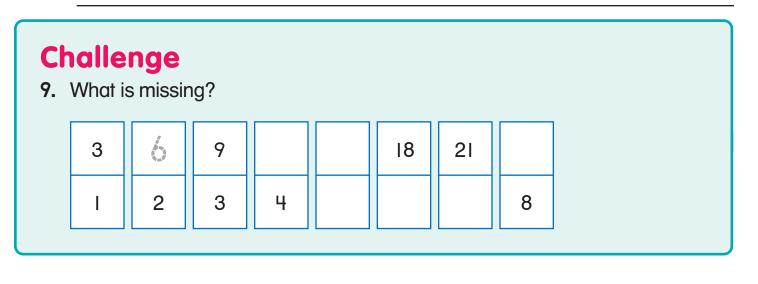
I. 12 cookies



Share each amount in 3 equivalent sets. Use a different color for each set.



sets can also be divided into 2 equivalent sets? Tell how you know.



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Chapter 11

Lesson 😕

How Many Packages?

How many packages can you fill? Complete each order. Use counters or draw a picture.

1. Start with 15 wheels. Put 5 in each package.

Fill _____ packages.

2. Start with 24 wheels. Put 4 in each package.

Fill	packages.
------	-----------

3. Start with 27 wheels. Put 3 in each package.

Fill	packages.
------	-----------

4. Start with 48 wheels. Put 6 in each package.

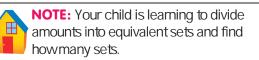
Fill _____ packages.

Make your own.

5. Start with _____ wheels.

Put_____ in each package.

Fill	. packages
------	------------

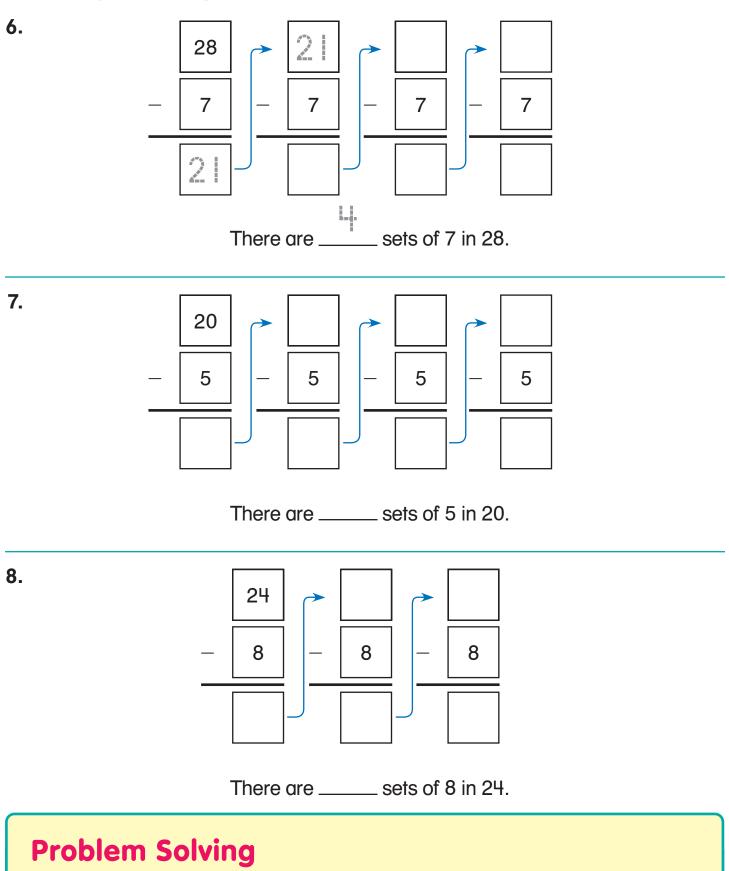


The factory can put any number of wheels in a package for special orders.

00000



How many sets can you make?



9. Larry is packing an order of wheels. He fills
3 packages of 6 wheels each. He has 12 wheels
left to pack. How many wheels are in the total order?
______ wheels

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		Name				_ Date/	Гіте
	pter 11 sson 1 0	Problem Solvi Make a List NCTM Standards 1, 2, 4, 5, 6, 7, 8, 9, 10	ng	Stra	tegy		Understand Plan Solve Check
1.	come in pao same numb Howmany pencils do l	me in packs of 4. Pencils cks of 6. I want to buy the per of erasers and pencils. packs of erasers and need to buy? cks of erasers cks of pencils	1.	4 eras	ers, 6		
2.	one is yellow She has two and one is w	3 shirts. One is red, w, and one is green. o skirts. One is black white. How many tfits can she make?					_ outfits
З.	side of a tria	bothpick to make each angle. He makes 5 triangles toothpicks does he need?	5.				_ toothpicks
4.	a race. The	and Nate are running in y finish first, second, and many different ways can he race?					_ Ways
F		ild is exploring different ways to solve etimes making a list is an efficient way em.					050

200 50 9 CCLIX two hundred fifty-nine 259

Problem Solving Test Prep

- At a bus stop, 3 people get on and 2 people get off. Now there are 26 people on the bus. How many people were on the bus before it stopped?
- 2. A snail travels 1 foot every 5 minutes. He starts crawling at 6:15. What time will it be when he has traveled 10 feet?
- stopped?
 A
 6:05

 A
 5 people
 B
 6:20

 B
 25 people
 C
 6:50

 C
 26 people
 D
 7:05

52

- Show What You Know
- **3.** David has 36 chairs. Half of the chairs have pads. How many chairs do not have pads?

_____ chairs

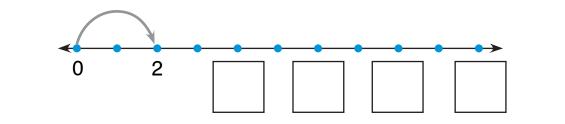
Explain how you found the answer.

4. Doris has 3 quarters. She wants to buy two notebooks. Each notebook costs 49¢. Does she have enough to buy both notebooks?

Explain how you know.

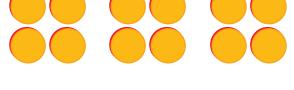


I. Skip count on the number line. Label your jumps. Lesson 1



2. How many are there in all? Lesson 2



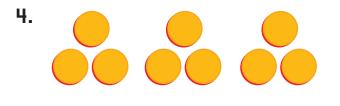


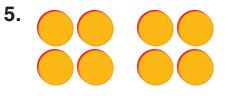
3. What is missing? Lesson 3



Number of rows	Number in each row	Total
2		

How many are there in all? Write an addition sentence. Lesson 4



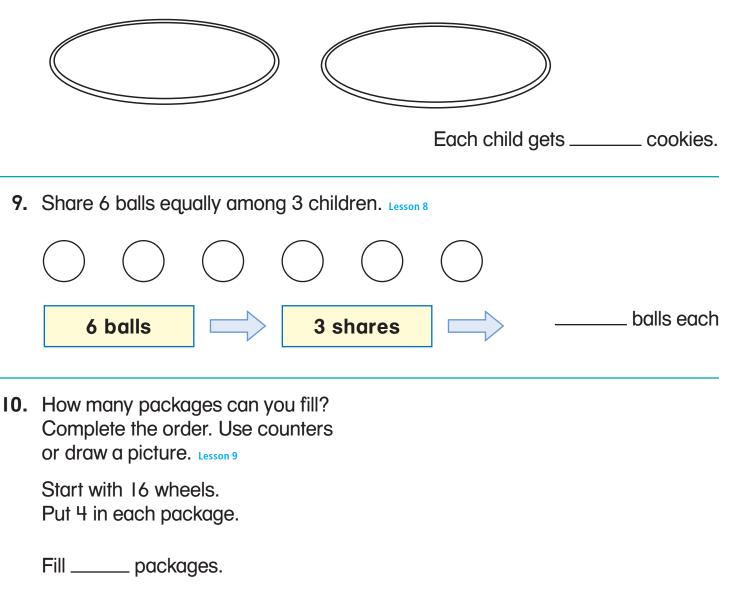


6. Write one addition sentence and one multiplication sentence for the array. Lesson 5

7. How many in all? Complete the table.

Number of Hands	I	2	3	4	5	6	7	8	9
Number of Fingers	5	10							

8. How many does each child get? Draw to share 12 cookies equally between 2 children. Lesson 7



Problem Solving Lesson 10

II. Mary uses a toothpick to make each side of a square. She makes 5 squares. How many toothpicks does she need?

___ toothpicks