Name _

Making and Breaking Numbers How Many Ways?

You need10 to 20 connecting cubes



Chapter **13**

Use cubes to make a train. How many cubes are in your train?



STEP 2 Adding

Break your train into 2 trains. Find as many different ways as you can. Write a number sentence for each way.

How many ways did you find? _____ ways



Share what you did with your classmates. What do you notice? nvestigatior



School-Home Connection

Dear Family,

Today we started Chapter 13 in *Think Math!* In this chapter, I will learn about even and odd numbers. I will learn how to break apart numbers to find sums to 20. There are NOTES on the Lesson Activity Book pages to explain what I am learning every day.

Here are some activities for us to do together at home. These activities will help me learn to create reasonable story problems and to make change.

Love,

Family Fun

Even or Odd?

Your child will be familiar with this game from Lesson 13.1.

- You will need a copy of Activity Master 79: Even or Odd.
- Each player chooses even or odd.
- Both you and your child say a number aloud at the same time. Write your number and whether it is even or odd in the left box. Write your child's number and whether it is even or odd in the middle box. Then, have your child record whether the sum will be even or odd in the right box.
- If the sum is even, the *even* player gets a point. If the sum is odd, the *odd* player gets a point. Continue play until one of you earns 3 points.



What's the Addend?

Work with your child to practice finding sums to 20.

 Gather 11 index cards or slips of paper to make a deck of sum cards.
Write the numbers 10 to 20 (one number per card) on the cards. Shuffle the cards and turn them facedown in a pile.



- One player chooses a sum card and reads the number aloud. The other player tosses a number cube and says the number aloud.
- Work with your child to find the number that needs to be added to the number tossed to make the sum on the card.
- Switch roles and repeat. As your child becomes more comfortable with the game, pick up the speed and ask your child to call out the missing number as quickly as possible.



NOTE: Your child is learning to add even and odd numbers. Ask your child to explain why the sum of 2 and 3 is an odd number.

Draw a picture for each number sentence. Is the sum even or odd?

5. even even _____

6. odd odd _____

7. even odd _____

Challenge Draw a picture for each. Is the sum even or odd?									
8. odd	even		9. even	odd					

Chapter 13

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Lesson 2

Making Numbers as Sums of 1, 2, 4, and 8

What number does each rod show?

What number sentence does each train show?

What number sentence does each train show?

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 $264 \ \text{two hundred sixty-four} \ \ \textbf{CCLXIV} \ \ \text{22 dozen}$

Chapter 13

Lesson E

How many dots are in each triangle?

53

numbers such as 1, 3, 6, and 10. Ask your child to use two of these numbers to make a fact family.

CCLXV two hundred sixty-five 265

Write a number sentence.

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NOTE: Your child is learning to add multiples of ten. You may wish to ask your child to find a different way to solve Problem 4.

89

89 89 CCLXVII two hundred sixty-seven 267

5. Continue the pattern. Use these numbers to complete the Cross Number Puzzle.

Name_

Draw rods to show each sum. What is the sum?

4. How can Problem 1 help you find 5 8?

NOTE: Your child is learning to find pairs of numbers with a sum of 12. You may ask your child to list a few pairs of numbers with a sum of 12.

What number sentence does each train show?

5.	
6.	
7.	
8.	
	Problem Solving
	9. Dante had 6 pairs of socks.
	How many socks did he have? socks
	Explain how you can use rods to solve this problem.

What number sentence does each train show?

١.		
	<u> </u>	-
2.		
3.		-
4.		-
5.	Draw rods to show 13, 14, or 15. Write a number sentence.	-

 \blacksquare

NOTE: Your child is learing to break apart numbers to make them easier to add. Ask your child to explain how to find 8 6 by making a group of ten.

Draw dots to show each addend. Write the missing numbers.

Write the missing numbers.

 \blacksquare

NOTE: Your child is finding different ways to make 16. You may wish to ask your child to use pennies to show different ways.

91

91

91

Complete each Cross Number Puzzle.

Write the missing numbers.

1.

2.

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NOTE: Your child is learning to make sums of 18 and to use doubles facts to find near doubles. Ask your child \blacksquare 8. M

55

what doubles fact can be used to find 9

CCLXXV two hundred seventy-five 275

What doubles facts can you use to find the sum?

276 two hundred seventy-six CCLXXVI 92 92 92

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3 CCLXXVII two hundred seventy-seven 277

NOTE: Your child is continuing to make groups of five and ten to make adding easier. Ask your child to explain how he or she solved Problem 2.

280

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What is the sum?

5.	6	8		6.	5	9		7. 9	10		
8.	7	5		9.	6	6		10. 8	8		
11.	4	9		12.	7	7		13. 6	9		
	14.	Explain how you solved Problem 13.									

Challenge 15. What rectangles can you make with 20 tiles?									
rows of	rows of								
rows of	rows of								
rows of	rows of								

2. Jack baked 2 batches of muffins. He baked 6 muffins in a small tin and 9 muffins in a large tin for each batch. How many muffins did Jack bake in all?

_____ muffins

3. Billie used 10 tiles to make this rectangle.

She wants to make a rectangle with 20 tiles. How many rows and columns could her rectangle have?

_____ rows and _____ columns

NOTE: Your child is using the strategy, *solve a simpler problem,* to solve problems. Ask your child to explain how he or she solved the problems on this page.

Problem Solving Test Prep

I. Mary made a design with tiles.

Show What You Know

 Kari, Rico, and Jordan ran a race.
Jordan beat Rico.
Kari beat Jordan.
Who won the race?

Explain how you know your answer is correct.

2. Josh had 12 marbles. He lost some of them. Now he has 6 marbles left. How many marbles did Josh lose?

(A)	6
(B)	12

(C)

18

(D) 24

There are 20 children in Mrs. Park's class. There are 4 more boys than girls. How many boys and girls are in the class?

> _____ boys _____ girls Explain how you solved the problem.

I. Write even or odd. Lesson 1

$\bigcirc \bigcirc \bigcirc$	
$\bigcirc \bigcirc$	
even	even

2. What number sentence does this train show? Lesson 2

What is the fact family? Lesson 3

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Complete each Cross Number Puzzle. Use multiples of 10. Lesson 4

7. Draw rods to show a sum of 12. Lessons 5 and 6

What is the sum? Lessons 5-9

Problem Solving Lesson 10

II. Nikki thought of the number pattern.The first five numbers are 2, 4, 6, 8, 10.What will the tenth number in her pattern be? _____