Name _

Counting Strategies Paper Clip Patterns

Make patterns with paper clips.



Chapter 7

How many different patterns did you make? _____

Draw one of your patterns here.



You need

 large and small paper clips

STEP 2 Describing Patterns

Use words to tell about the pattern you drew.

Which is your favorite pattern? Tell about it.

STEP 3 Extending Patterns

Continue one of your patterns. How did you know what to do?



School-Home Connection

Dear Family,

Today we started Chapter I of *Think Math!* In this chapter, I will explore numbers, number lines, patterns, skip-counting, addition, subtraction, and even multiplication. 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 understand numbers and counting patterns.

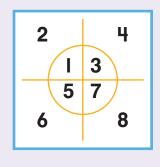
Love,

Family Fun

What's My Number?

Work with your child to play a game called *What's My Number?* Your child will play this game later in this chapter.

- Tell your child you are thinking of a number from 1 to 8.
- Your child asks up to four yes/no questions to find the secret number. Each question should get rid of several numbers at once. Some good questions to ask are: "Is your number odd?" or "Is your number less than 5?"

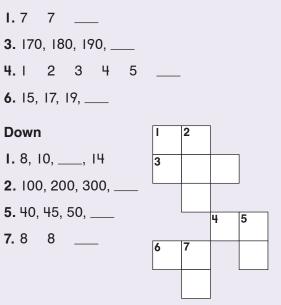


- After each question, your child crosses off the numbers that have been eliminated.
- Your child wins the game if he or she guesses the secret number with up to 4 questions.

Number Puzzle

Work with your child to complete the number puzzle.

Across

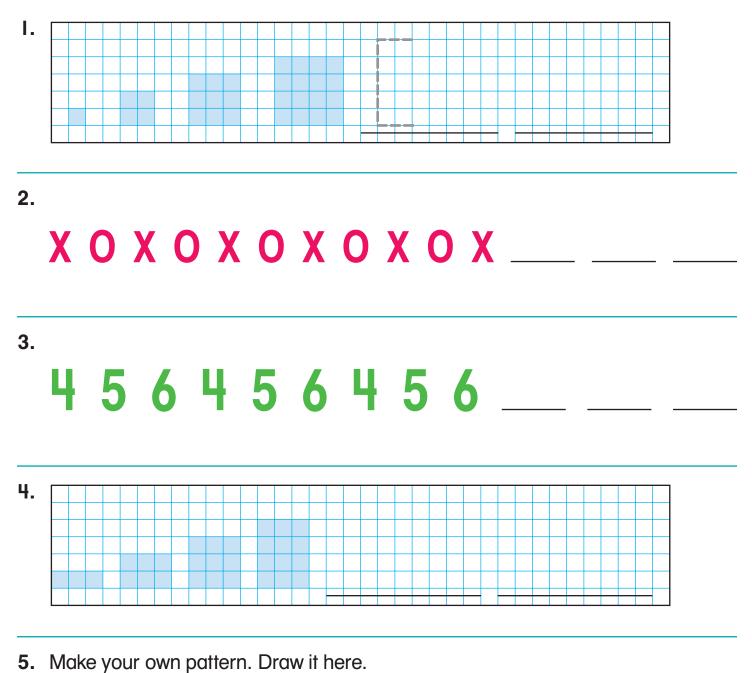






Repeating and Growing Patterns

What comes next? Continue each pattern.



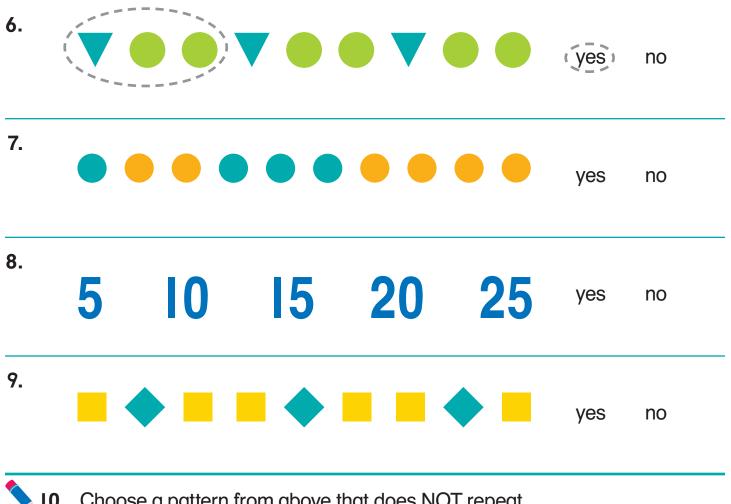


NOTE: Your child is learning about patterns that repeat and grow. Together, look around your home for different patterns.

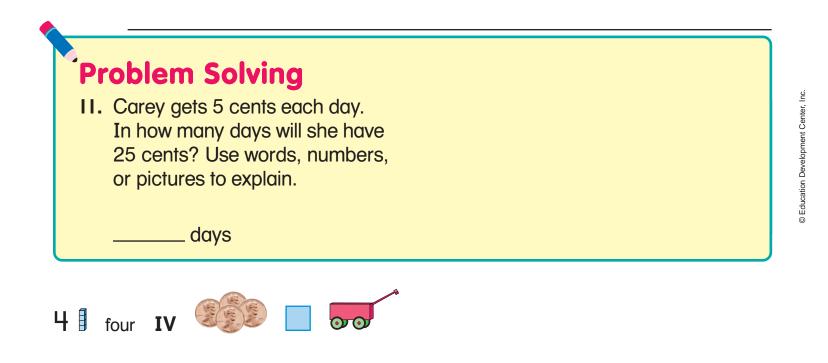


III three 3

Is it a repeating pattern? Circle *yes* or *no.* If *yes,* circle the pattern unit.



IO. Choose a pattern from above that does NOT repeat. How does the pattern grow?





Date ___

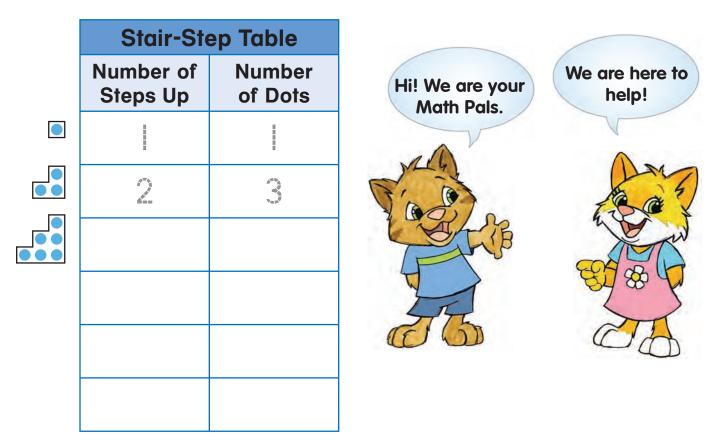
5

five

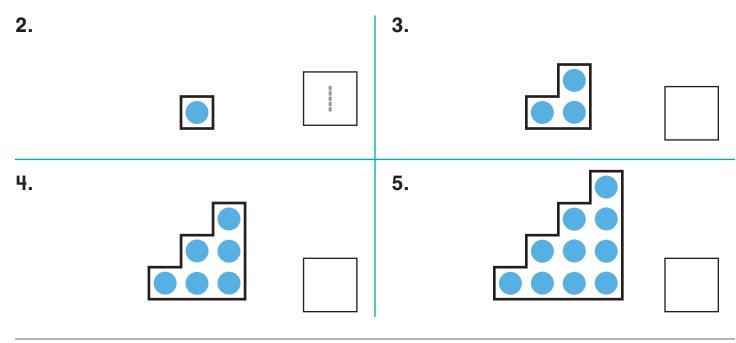
Chapter 1

Working with Number Patterns

- NCTM Standards 1, 2, 6, 9, 10
- I. Continue the pattern. What is missing?



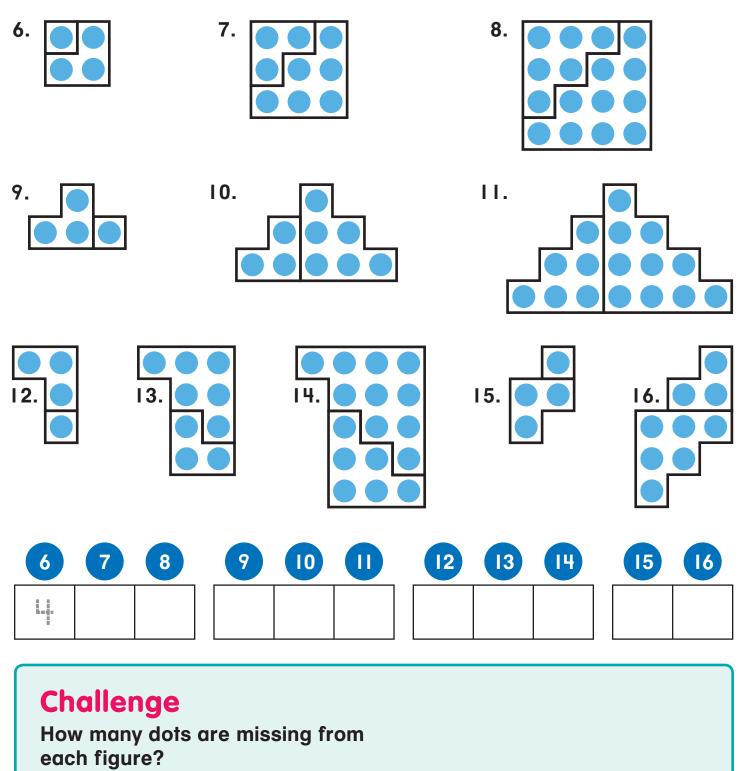
How many dots are on each card?

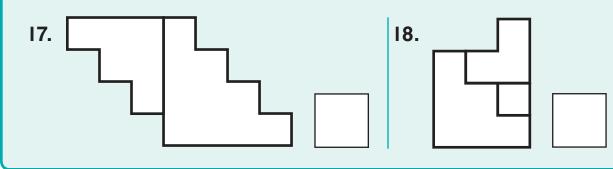


NOTE: Your child is using Stair-Step Cards to show patterns. The cards can be put together to make squares

and show designs.

Each figure is made from two cards. How many dots are in each figure? Record below.





6 🛚 six VI 🥨 🛆

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VII seven

YE

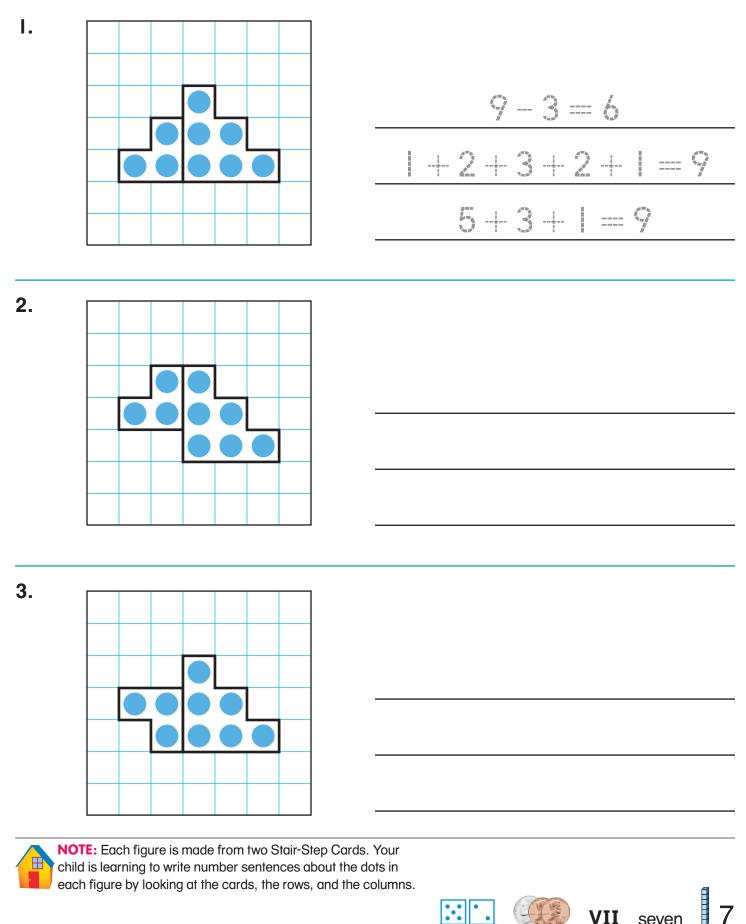
Name -



Writing Number Sentences

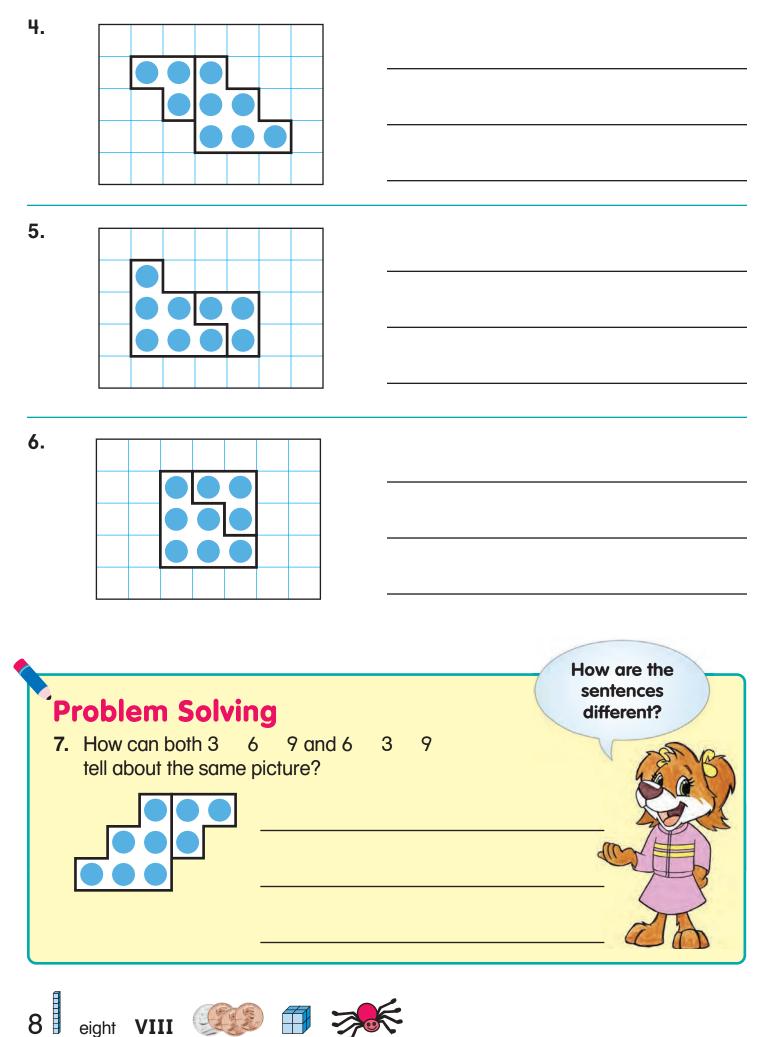
NCTM Standards 1, 2, 6, 7, 8, 9, 10

Write number sentences to go with each figure.



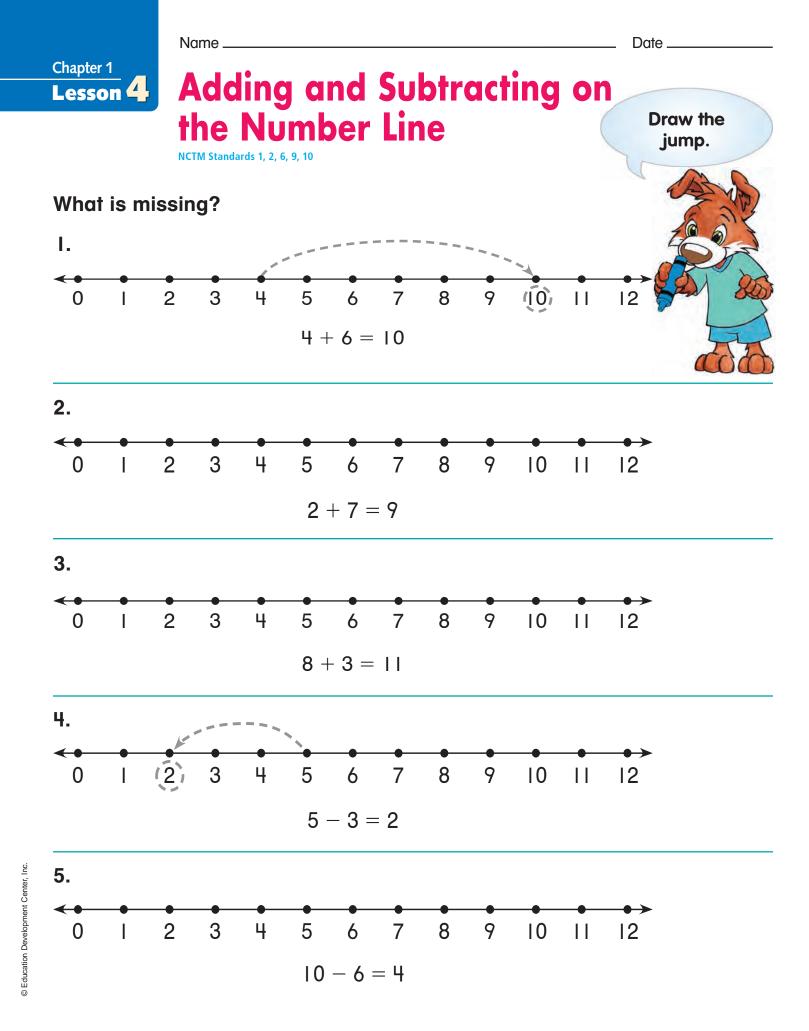
...

Write number sentences to go with each figure.



Ħ

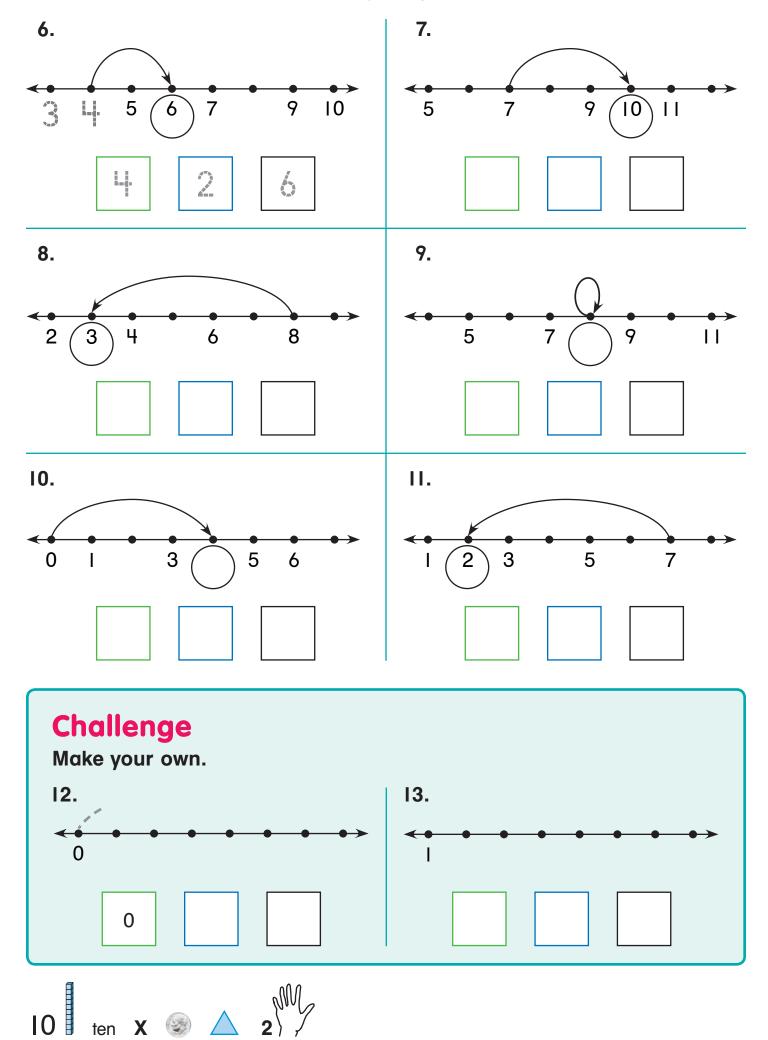
eight VIII





9

What number sentence is shown by the jump?



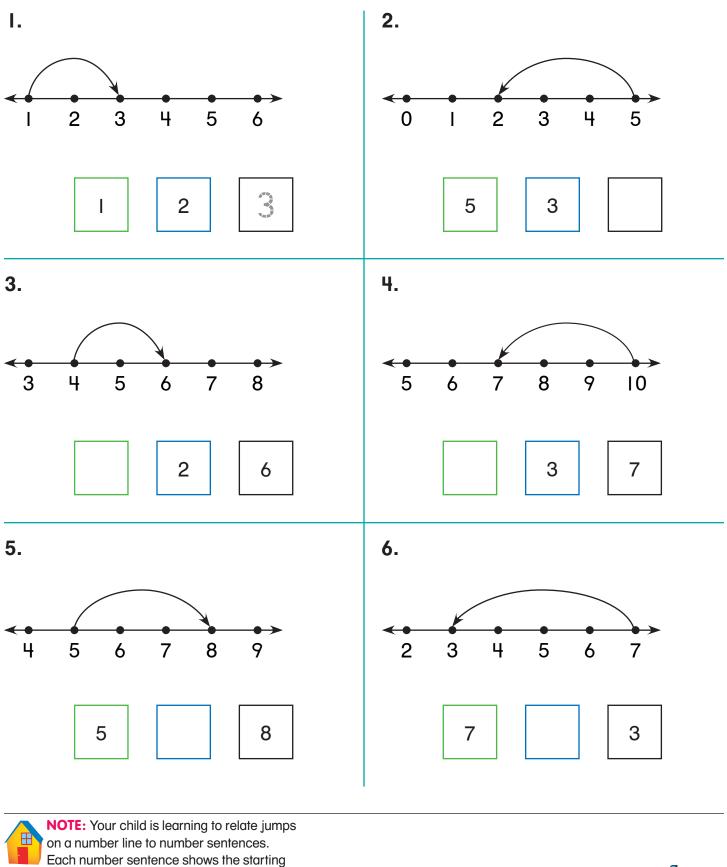
XI eleven

Chapter 1

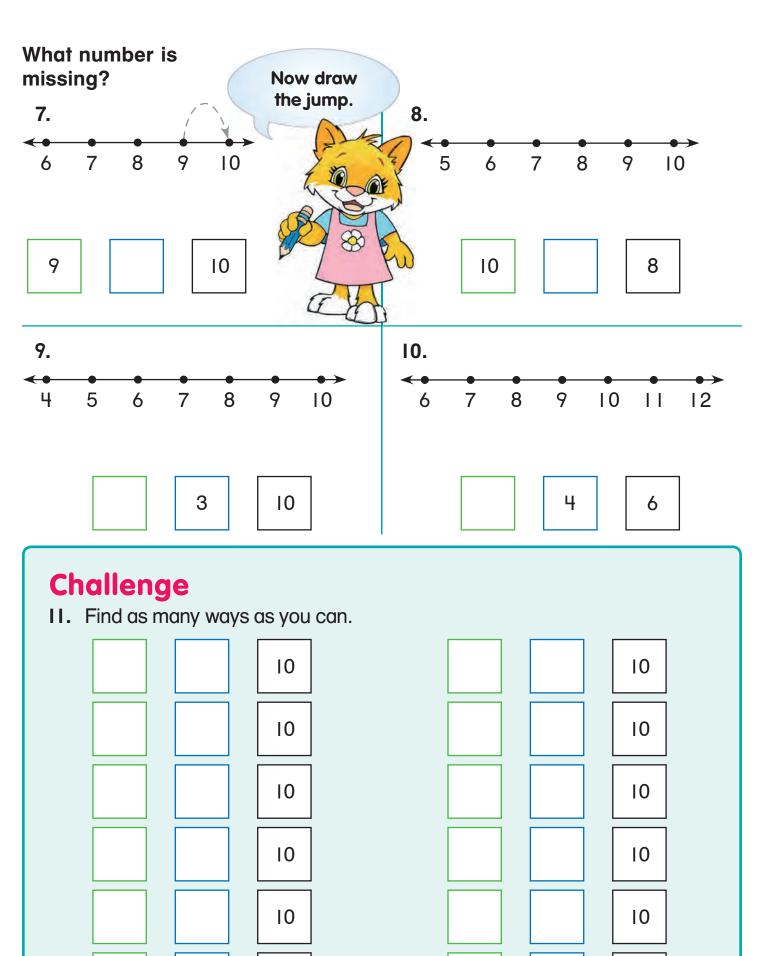
Completing Number Sentences

NCTM Standards 1, 2, 6, 10

What number is missing?



number, the jump size, and the landing number.



10

12

twelve

XII

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10

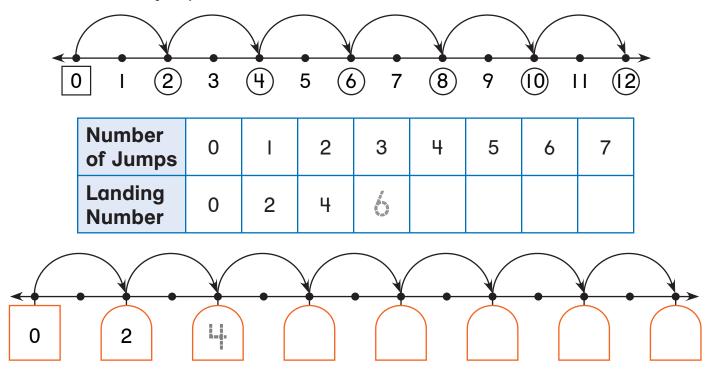


Skip-Counting on the Number Line

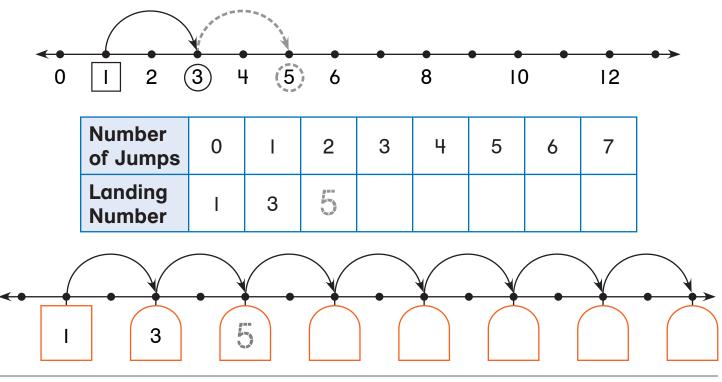
NCTM Standards 1, 2, 5, 6, 7, 8, 9, 10

Skip-count. What is missing?

I. Start at 0. The jump size is 2.



2. Start at 1. The jump size is 2.

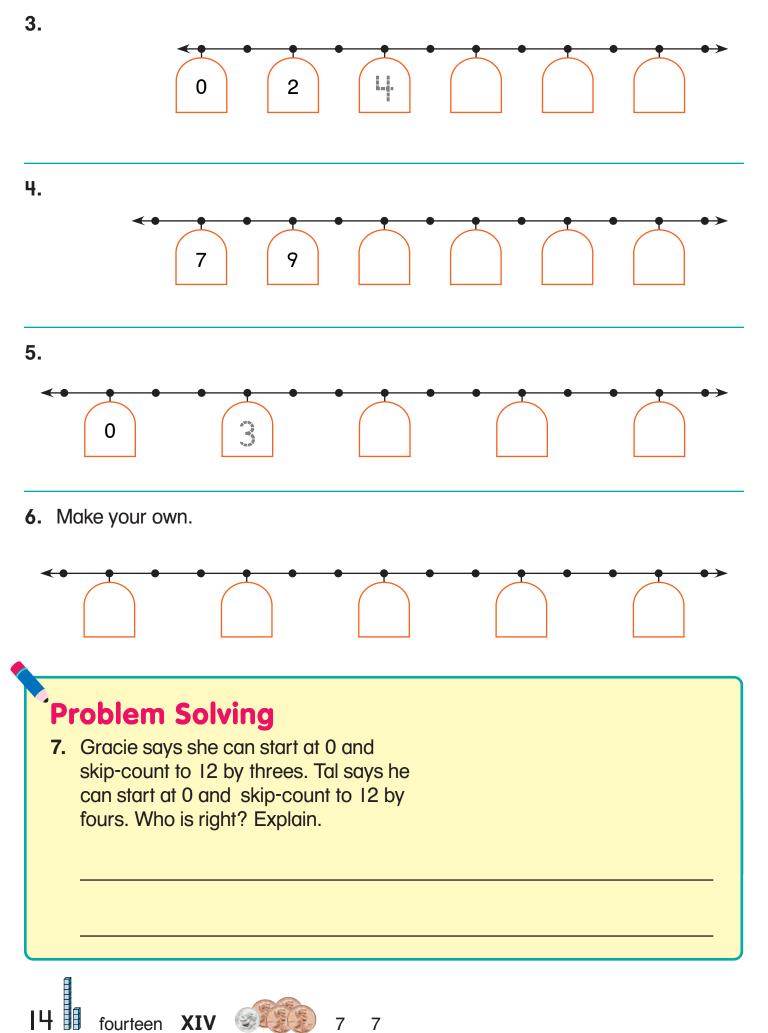






 \blacksquare

Skip-count. What are the missing numbers?



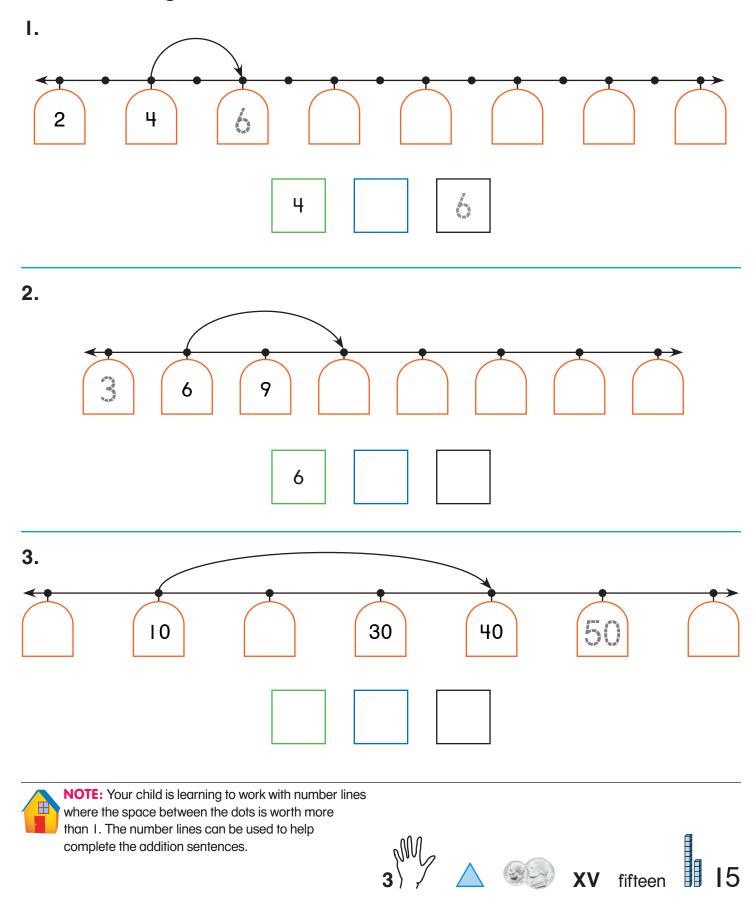
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Date.

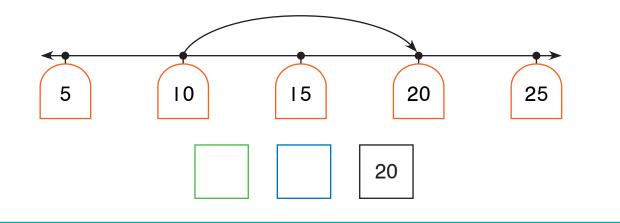
Chapter 1

More Skip-Counting on the Number Line

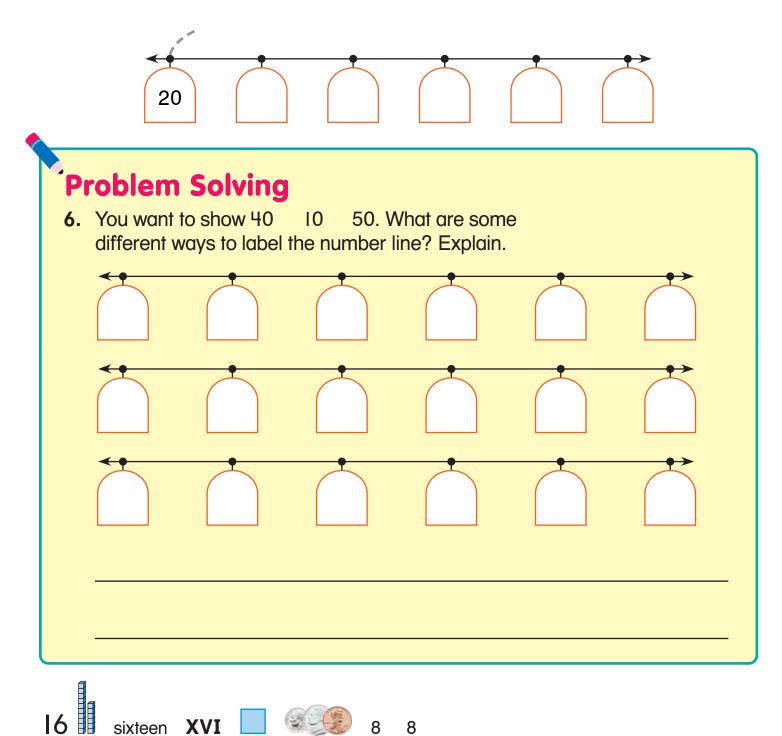
What is missing?



4. What is missing?



5. Make your own number line to show 20 8 28.



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Name _



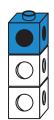
Systematic Counting

NCTM Standards 1, 2, 6, 9, 10

How many different towers can you build? Follow the rules. Color to show the towers. Mark an X on towers you do not color.

Rules: • Use one blue cube in each tower.

• Use cubes of another color to make the right height.



Height	Different Towers	Number of Towers
I. I cube tall		
2. 2 cubes tall		
3. 3 cubes tall		

NOTE: Your child is using cubes to build all possible towers for each height. Only one of the cubes is blue and the rest are another color.



20

3



How many different towers can you build?

Height	Different Towers	Number of Towers
4. 4 cubes tall		
5. 5 cubes tall		
6. 6 cubes tall		

Challenge 2. What is missing?						
Number of Cubes	I	2	3			
Number of Different Towers						

18



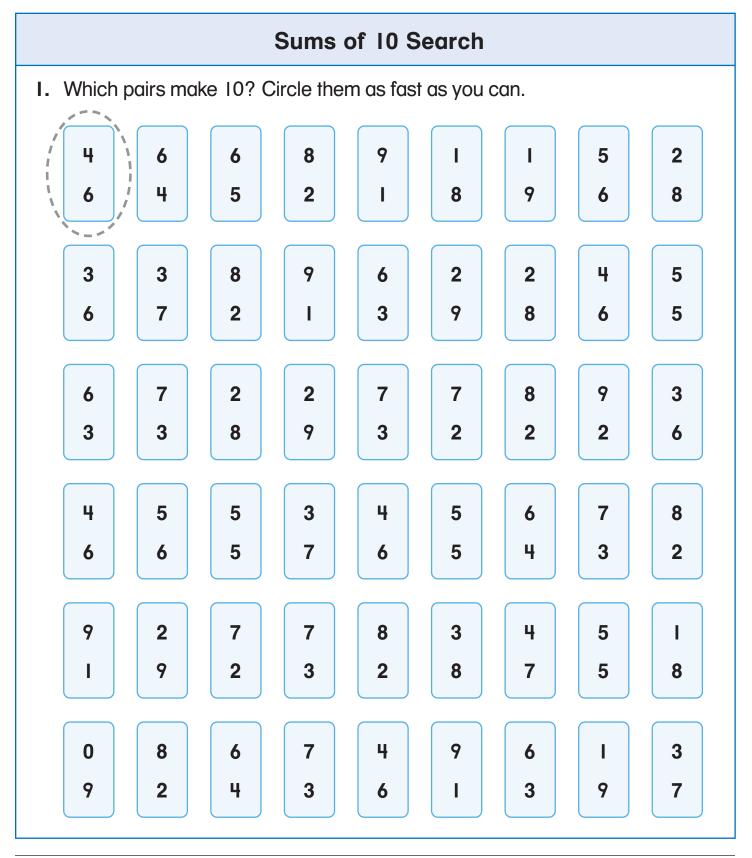
9

Name _

Date _

Chapter 1

Finding Ways to Make 10 NCTM Standards 1, 2, 6, 7, 8, 9, 10



NOTE: Your child is learning to quickly recognize pairs of numbers with a sum of 10. You can practice by saying a number and having your child name that number's partner to make 10.

20

I.

XIX

Cover some, all, or no dots.	
Problem Solving 3. I am thinking of two numbers with a sum of 10. On of the numbers is even. What can you say about th other number? What two numbers might they be?	



Chapter 1

Lesson 1

Previewing Multiplication, Part I

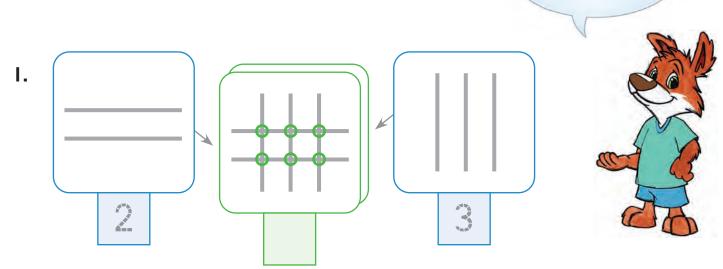
NCTM Standards 1, 2, 3, 6, 9, 10

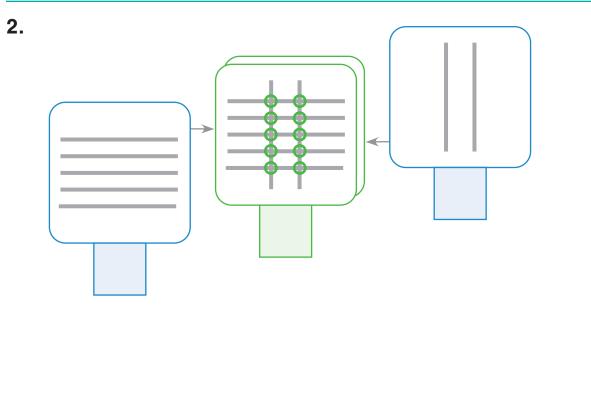
How many intersections are there? Write the missing numbers.

An intersection is where two lines meet.

XXI twenty-one

2





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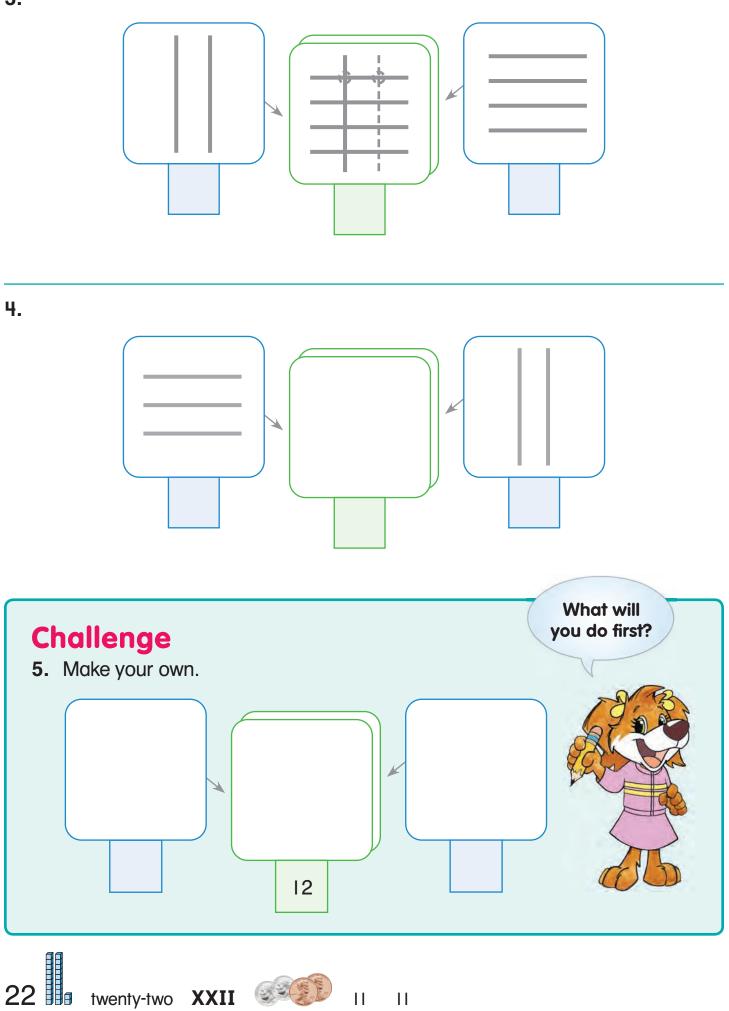
NOTE: Your child is exploring and counting intersecting lines. Pictures like these will be used later to model multiplication.

Т



What is missing?





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Name.

23

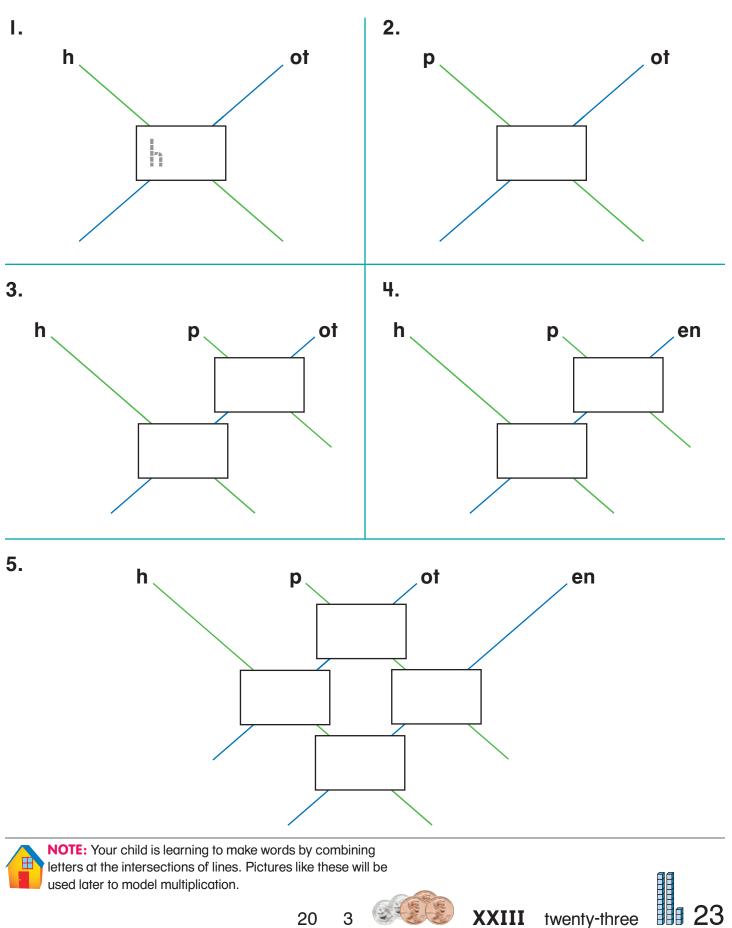
XXIII twenty-three

Previewing Multiplication, Part II Lesson 1 1

NCTM Standards 1, 2, 3, 6, 9, 10

What words can you make?

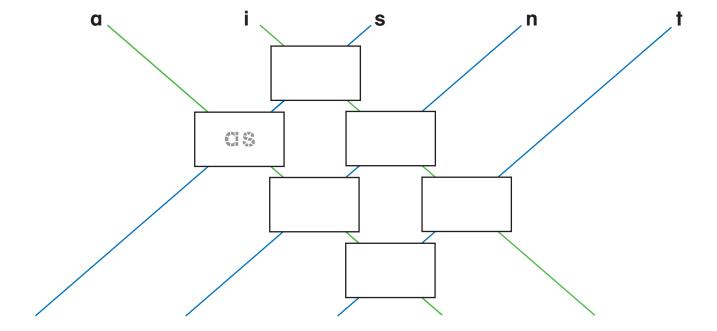
Chapter 1



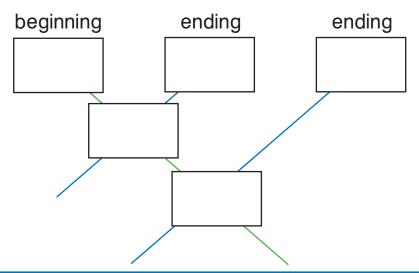
20

3

6. What words can you make?



7. Make your own.



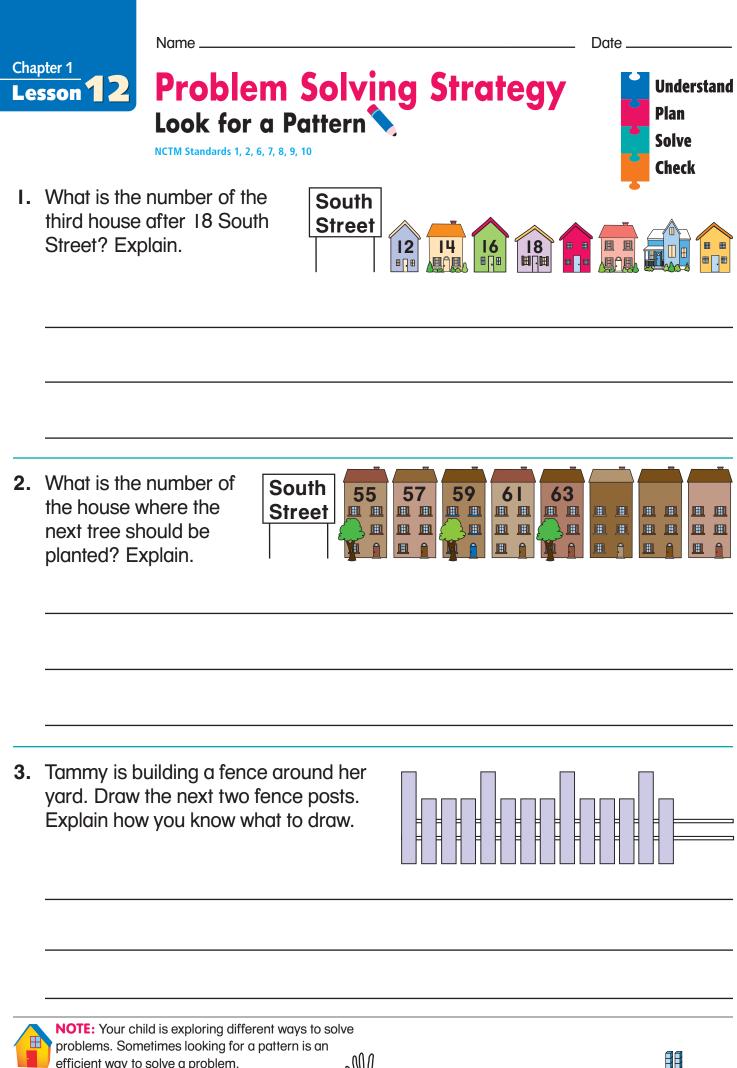
Meat Cheese bologna American the different sandwiches he can make.







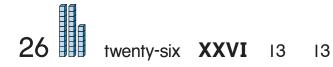
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twenty-five

Problem Solving Test Prep

Ι.	Carla has 6 games. Jeff has 4 games. How many games do they have altogether?	2.	playg The re numb	irou est per	und. are sent	8 are playir ence	ren on the on the sw ng catch. N shows ho ng catch?	ings. Nhich
	(Å) 2 games		A I	I	8	19		
	B 6 games		BI	I	8	3		
	© 10 games		© 8	5	8	16		
	D 24 games		DI	I	4	7		
	Show What You Know							
3.	Matt bakes 15 muffins. He gives some to his mother. He gives 3 fewer muffins to his brother. He has 6 muffins left. How many muffins did he give to his mother? muffins	4.	Mond went	day up vill 1	was 2 e the h	347 ach d	erature on The tempo lay. On wh at tempera	erature nat
	Explain how you found the answer.		Expla	ain I	how	you fo	ound the c	inswer.



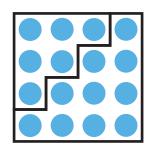
Date -

Name _

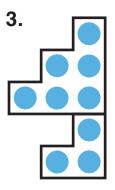


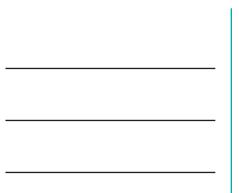
- I. Continue the pattern. Lesson 1
- 2. How many dots are in each figure?

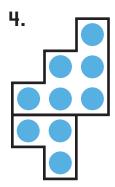




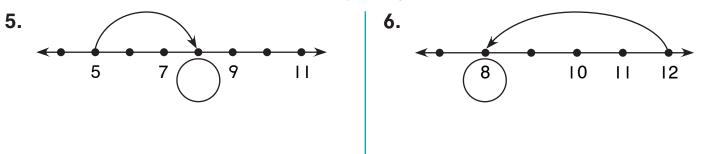
Write number sentences to go with each figure. Lesson 3



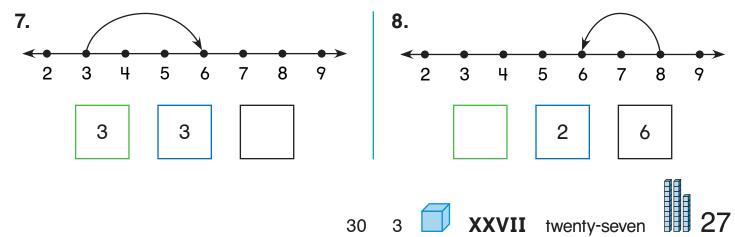


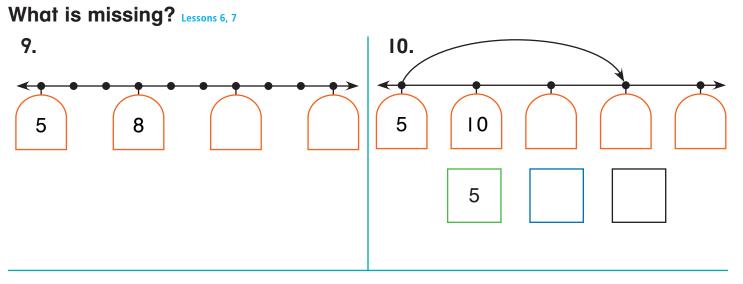


What number sentence is shown by the jump? Lesson 4

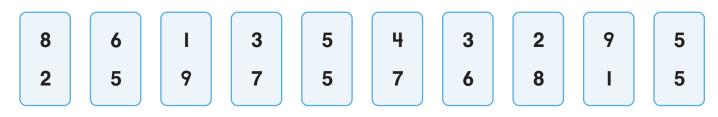


What number is missing? Lesson 5

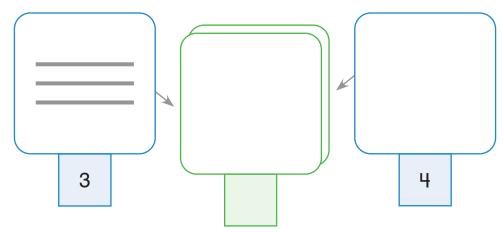




II. Circle pairs with a sum of 10. Lesson 9

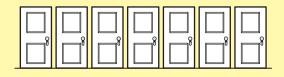


12. How many intersections are there? Lesson 10



Problem Solving Lesson 12

13. At Mt. Way School, there are 7 doors on one side of the hallway. Starting with the first door, every other one is painted blue. How many blue doors are there?





____ blue doors

