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chapere 1 Two-Dimensional
Figures and Patterns
Comparing and Sorting
Sort the objects into two groups.

## STEP 1 Showing the Groups

Draw or trace the objects to show how you sorted. Write a name for each group.

## You need

-10 coins, buttons, or shapes
$\square$
$\square$

STIEP 2 Sorting Another Way
Sort the objects another way. Tell about it

## ( School-Home connection

## Dear Family,

## Today we started Chapter I of Think Math! In this

 chapter I will learn about two-dimensional figures and how they are similar and how they are different. I will also learn about patterns and ways to recognize and make patterns with objects, figures, and numbers. There are NOTES on some of my 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 two-dimensional figures and patterns.

## Love,

## Family Fun

## Shape Dominoes

Play this game with your child to provide practice drawing and recognizing two-dimensional figures. Your child will play a similar game in school.

You will need a red crayon, a blue crayon, and a yellow crayon.
On a sheet of paper, draw a small or large triangle, circle, square or rectangle using one of the crayons.

Have your child draw a figure next to yours that is different in only one way-size, shape, or color.

Switch roles and repeat. Play until you have created a long chain of figures. Have your child tell how the figures differ each time.

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## Household Patterns

Work with your child to create patterns with common household objects.

Use common household objects such as forks and spoons, napkins, coins, or paper clips to create patterns.

Arrange the objects in a row to create a repeating pattern by alternating the object in a certain way, or by placing similar objects
 in different positions.
For example, you might make a pattern using 2 forks, I spoon, 2 forks, I spoon, or by placing paper clips in different positions.

Repeat the activity with different objects. Encourage your child to describe each pattern.
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## Chapter 1

## Lesson 1

## Introducing Think Math! <br> NCTM Standards 1, 6, 7, 8, 9, 10

1. Write the number or draw the picture.


## 2. Draw each set



I fewer


I more


III three

3. Match.


## Problem Solving

4. What is missing?

$\qquad$

## Chapter 1

## Lesson 2

## Examining Two-Dimensional Figures <br> NCTM Standards 3, 6, 7, 8, 9, 10

1. Match.


## circle



## 2. Color $\square$ blue.

Color $\triangle$ green.
Color $\bigcirc$ red.

3. Color $\square$. Write how many.


There are $\qquad$ rectangles.

Which figure does not belong? Cross it out
4.



5.


Challenge
6. Which figure does not belong?

Draw a figure that does belong.

$\qquad$

## Chapter 1

## Lesson 3

## Sorting by Attributes

NCTM Standards 3, 5, 6, 7, 8, 9, 10

## Which does not belong? Cross it out

1

4.

5.


2.

6.



Draw another figure that belongs.

## Explain why.

7. 



8.

9.


Challenge
10. The figure with the $X$ does not belong. Why?

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## Chapter 1

## Lesson 4

## Sorting by More Than One Attribute <br> NCTM Standards 3, 6, 8, 9, 10

What is missing?
1

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2.


NOTE: Your child is leaming to identify similarities and differences. Have your child tell how the figures on this page are the same and how they are different

Which figure is it?

## 3.


5.

| LARGE |
| :---: |
| Yellow |
|  |



Challenge
6.

| Blue |
| :---: |
|  |



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## Chapter 1

## Lesson 5

## Counting Differences

NCTM Standards 1, 3, 6, 7, 9, 10

## Draw figures that are different in one way each time.


3. Draw figures that are different in two ways.


## Challenge

4. In how many ways are the figures different? Draw the dots.

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Chapter 1

## tusene

## Repeating and Growing Patterns

NCTM Standards 2, 3, 6, 7, 8, 10

## What color is missing?

1


## 2.


3.

4.


## Continue the pattem.

5. 


6.

7. Make your own pattem.

## Problem Solving

8. Draw a shape pattem to match this letter pattem.

## A B A B A B

Name $\qquad$
$\qquad$
Chapter 1

## Lesson 7

1. J ane lives on this street

What is the number of J ane's house? Explain.

2. Tom lives on this street What is the number of Tom's house? Explain.


## Problem Solving Test Prep

1. What numbers are missing?
$123-56$ - 8
(A) 2 and 9
(B) 4 and 7
(C) 5 and 6
(D) 4 and 5
2. You have 5 balloons. Some fly away. How many could you have now?
(A) 1 balloon
(B) 5 balloons
(C) 6 balloons
(D) 10 balloons

Show What You Know
3. Bob has 3 apples. J uan has 1 more apple. How many apples does J uan have?
$\qquad$ apples
Explain.
$\qquad$
$\qquad$
$\qquad$
$\square$
$\qquad$
4. What comes next?
$\bullet \bullet \bullet \bullet \bullet \bullet \bullet \bullet \bullet$
___ dot
Explain how you know.
$\qquad$
$\qquad$
$\qquad$
$\qquad$

## chapter 1 Review/Assessment

Write how many. Lesson 1
1.


Cross out the figure that does not belong. Lessons 2and 3
3.

4.

5.


Draw each figure. lesson 4
6. large red square
7. small blue circle
8. Draw a figure that is different in one way. Lesson 5


Problem Solving ${ }_{\text {Lesons s mand } 7}$
What comes next?
" $\triangle$



