

# Unit 7: Counting and Data Analysis

**TEAMBPCS**  
Office of  
Mathematics PreK-12

The PreK-12 Mathematics curriculum focuses on problem solving, communication, and critical thinking in order to provide a foundation where every student reaches their potential to become a globally competitive, mathematically literate citizen.



## About this Unit

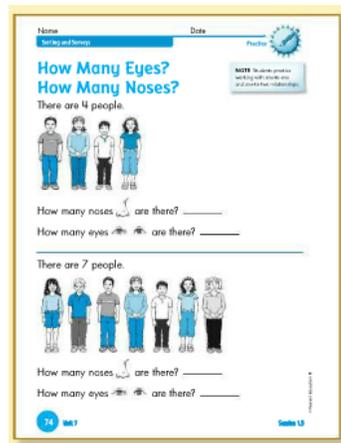
This unit develops ideas about sorting and classifying, counting, representing data, conducting a data investigation, and using data to solve a problem. Students sort objects according to common attributes, as well as sort data about their class. They collect, record, and represent categorical and numerical data about their class. They carry out their own data investigation by collecting responses to their own survey questions.

## Counting

In the first part of this unit students are learning to write and represent numerals up to twenty. Students will count a variety of items and then represent the data. They also work with counting by groups of 2.



Students count the number of chairs in the classroom and use a variety of materials to keep track of and record their counts.



## Classifying and Sorting

Students will identify the attributes of objects. They will identify an attribute that is common to several objects and compare how those objects are the same and different. Students will also use attributes to sort and resort a set of objects.



Students play Attribute Dominoes, making a train of attribute blocks by laying blocks next to each other if they have at least one common attribute.

### Collecting, Representing, and Describing Data

Students collect data by conducting surveys. They organize and represent their data by drawing pictures and using numbers. They use the data collected to answer questions.

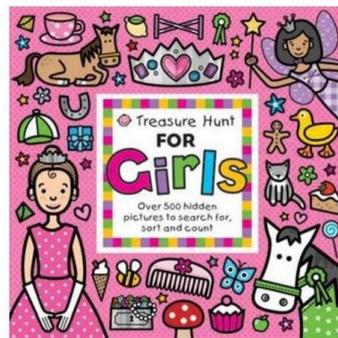
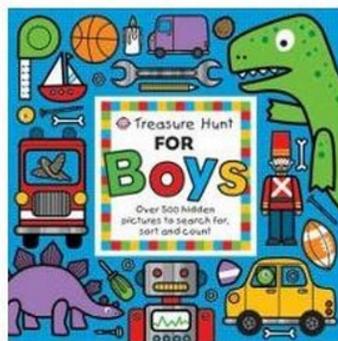
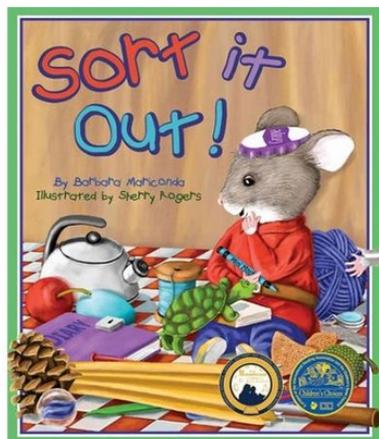
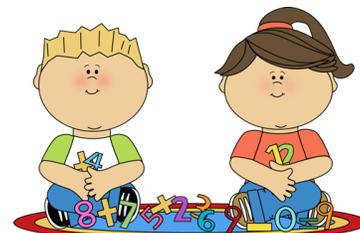
Do you like applesauce?	
Yes	No
Jae	Tammy
Beth	Mitchel
victor	Russell
Kaitlyn	Abbr
cindy	Lisa
Ljonei	Mia
EMMA	Timothy
Kyle	Brad
Benjis	
sack	



Students collect survey data.

### Helping Your Child at Home

- Have your child count everything!
- Give your child groups of everyday objects to count and sort: socks, toys, candy, food, buttons, etc. Have your child explain how they sorted the objects.
- Read books about sorting and classifying.



## Visit These Websites for Interactive Math Activities

- [Season Suitcase Sort](http://www.education.com/games/seasons-suitcase-sort/) (<http://www.education.com/games/seasons-suitcase-sort/>)  
Students have to sort the clothes into the correct suitcase.
- [Counting in the Kitchen](http://www.education.com/games/counting-in-the-kitchen/) (<http://www.education.com/games/counting-in-the-kitchen/>)  
Students practice counting items on a plate of food the match a given number.
- [Count How Many](http://www.turtlediary.com/kindergarten-games/math-games/count-how-many.html) (<http://www.turtlediary.com/kindergarten-games/math-games/count-how-many.html>)  
Students are asked to count how many they can find in a given picture.
- [Counting & Sort](http://www.abcya.com/counting_sorting_comparing.htm) ([http://www.abcya.com/counting\\_sorting\\_comparing.htm](http://www.abcya.com/counting_sorting_comparing.htm))  
Students have to sort a group of Fuzzies into jars. Then they count the objects and determine which group has more.

