



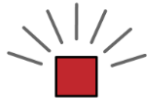
Activity



SORTING, COUNTING AND GRAPHING CANDY



Introduction



Many scientists gather, organize and study data, or information, as part of their jobs and their research. First, they must gather data. Then they can organize the data in ways that help them understand and use it. One way scientists organize data is by making graphs. In this activity, your students can gather data and use it to make graphs too.

The Census Bureau uses the census to gather data, including how many people live in each home. They also gather data such as each person's name, birthday and age. In this activity, your students can gather data about colored chocolate candies.

For the activity, you will need enough colored chocolate candies so that each student has 20. The data they will gather will be the number of chocolate candies of each color they have. The students can work alone or in groups. After counting one color of candies, they will write that number onto the graph, then color that same number of squares. You may want to encourage the students to color the graph using the same color marker as the chocolate candy they have counted. They will repeat these steps with each color of candy they have. If your candies are different colors than are shown on the graph, you can use markers to indicate the colors you have. At the end of the activity, the students can compare their graphs and see if they had the same or different numbers of each color of candy.

You can have the students count out 20 chocolate candies of random colors for themselves or have plates of 20 chocolate candies prepared beforehand. If you want your students to be able to eat the chocolate candies afterward, make sure they wash their hands before handling the chocolate candies.



WARNING

Some colored chocolate candies can contain allergy hazards, such as peanuts. Please use caution when choosing the colored chocolate candies or choose alternate materials that are appropriate for your students' learning and health needs.



What We Know:

- The U.S. will have a census in 2020.



- The 2020 Census will count every person in the U.S.



- People can count other things too.



- People can use graphs to organize data.



What We Can Do:

- We can count and graph the numbers of colored chocolate candies.



Need:

20 colored
chocolate candies
(See Introduction)



paper plate



Colored Chocolate
Candy Graph
(page 60)



markers



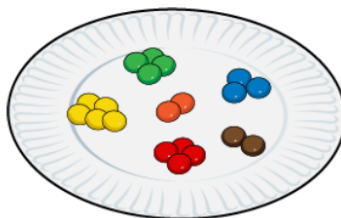


Activity Steps

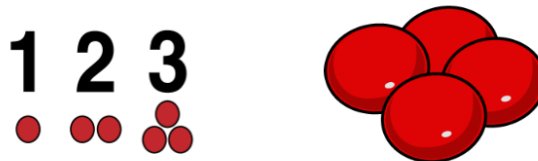
1. Put colored chocolate candies onto plate.



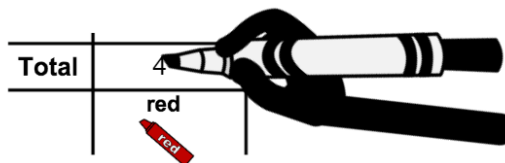
2. Sort candies into piles of like colors.



3. Count all red candies.



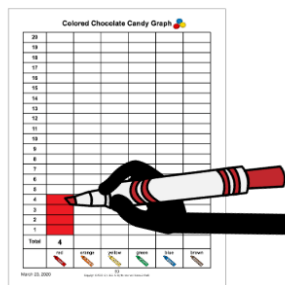
4. Write number in box above red on Colored Chocolate Candy Graph.



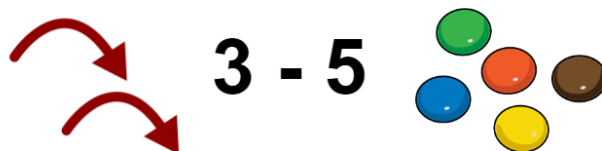


Activity Steps

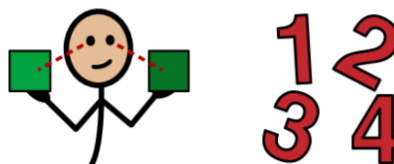
5. Color the number of boxes in red column, starting at bottom.









6. Repeat steps 3-5 for each color of candy.



7. Compare numbers in each column.



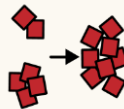
Colored Chocolate Candy Graph

20						
19						
18						
17						
16						
15						
14						
13						
12						
11						
10						
9						
8						
7						
6						
5						
4						
3						
2						
1						
Total						
	red 	orange 	yellow 	green 	blue 	brown 



What I Learned

1. What color of candy did you have the most of?



red



orange



yellow



green



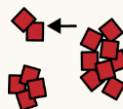
blue



brown



2. What color of candy did you have the least of?



red



orange



yellow



green



blue



brown



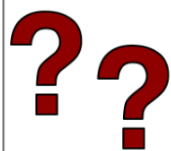
3. Did you have the same number of any of the candies?



yes



no

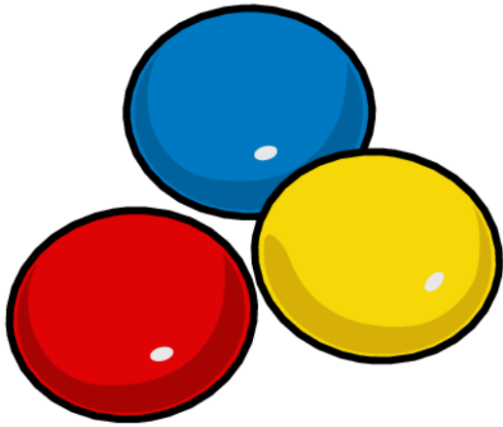


Questions for Class Discussion

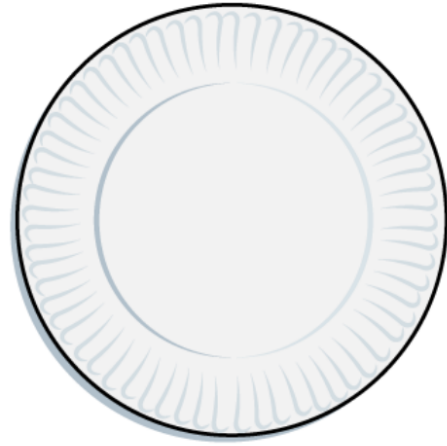
- Compare your graph to another student's graph. Are the numbers the same?
- How does a graph help you compare things?
- What other foods could you use in this activity?

Read, practice and post these words on classroom or craft area word walls.

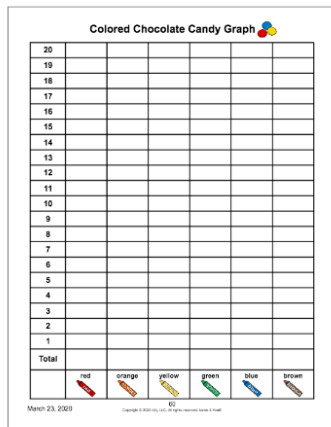
colored chocolate candies



paper plate



Colored Chocolate Candy Graph



markers

