

# Button STEM Challenge

## Exploring Data

Created by Deirdre Smith of JDaniel4's Mom

Clip Art from



Name: \_\_\_\_\_

### Button STEM Challenge- Exploring Data

Directions: Sort your buttons by color and display how many you have of each on the chart and line plot below.

#### Supplies:

- Collection or bag of buttons
- Pencil

#### Exploration Requirement:

- Sort your buttons.
- Record the number of buttons you have by color.
- Create a leaf plot data chart

#### What is a line plot graph?

A line plot graph shows how many times something happens. It uses a line and columns of x's. Each x equals a time you have had it happen or item you have.

#### How to Make a Line Plot

Use the data above to create a line plot below. Place X's in a column above each color that represent the number of buttons that color you have.

Write each color of button you have in the chart below. Place a tally mark for each button you have that is that color in the tally mark column next to it.

Color	Tally Marks

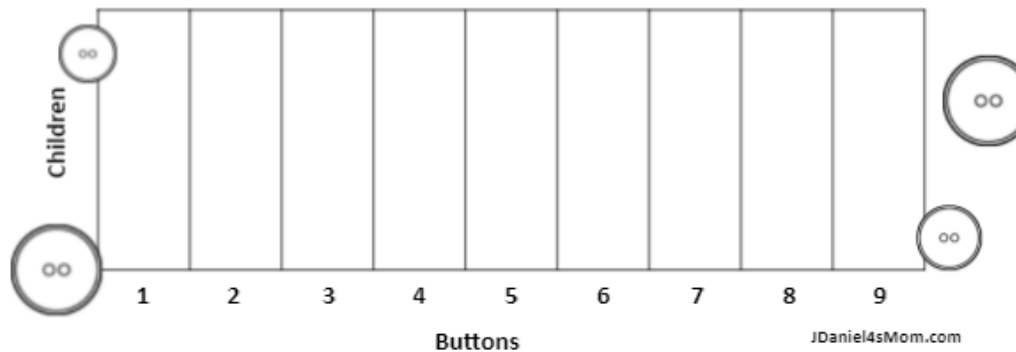
Name: \_\_\_\_\_

### How Many Buttons?

Twenty-five children were given bags of buttons. How many they each got is recorded below.

7	3	8	9	2
4	6	7	3	6
7	6	5	9	5
9	8	6	4	7
5	4	9	9	3

Use the data above to complete the line plot below.



Name: \_\_\_\_\_

### Button STEM Challenge- Exploring Data

Directions: Sort your buttons by color and display how many you have of each on the chart and line plot below.

#### Supplies:

- Collection or bag of buttons
- Pencil

#### Exploration Requirement:

- Sort your buttons
- Record the number of buttons you have by shape.
- Create a leaf plot data chart

Write each color of button you have in the chart below. Place a tally mark for each button you have that is that color in the tally mark column next to it.

Shape	Tally Marks

oval star oval triangle heart  
Colors

Created by JDaniel4sMom.com

# **Button STEM Sort Challenge-**

## **Color**

- Sort the buttons you have been given by color.
- Record how many buttons of each color you have been given on the table.
- Display your data on the stem and leaf plot.

# **Button STEM Sort Challenge- Shape**

- Sort the buttons you have been given by shape.
- Record how many buttons of each color you have been given on the table.
- Display your data on the stem and leaf plot.

Name: \_\_\_\_\_

## Button STEM Challenge- Sorting by Color

Directions: Sort your buttons by color and display how many you have of each on the chart and line plot below.

### Supplies:

- Collection or bag of buttons
- Pencil

○○

### Exploration Requirement:

- Sort your buttons.
- Record the number of buttons you have by color.
- Create a leaf plot data chart

○○

### What is a line plot graph?

A line plot graph shows how many times something happens. It uses a line and columns of x's. Each x equals a time you have had it happen or item you have.

○○

### How to Make a Line Plot

Use the data above to create a line plot below. Place X's in a column above each color that represent the number of buttons that color you have.

Write each color of button you have in the chart below. Place a tally mark for each button you have that is that color in the tally mark column next to it.

Color	Tally Marks

Buttons

red orange green blue purple yellow

Colors

Name: \_\_\_\_\_

## Button STEM Challenge- Sorting by Shape

Directions: Sort your buttons by color and display how many you have of each on the chart and line plot below

### Supplies:

- Collection or bag of buttons
- Pencil

○○

### Exploration Requirement:

- Sort your buttons
- Record the number of buttons you have by shape.
- Create a leaf plot data chart

○○

### What is a line plot graph?

A line plot graph shows how many times something happens. It uses a line and columns of x's. Each x equals a time you have had it happen.

○○

### How to Make a Line Plot

Use the data above to create a line plot below. Place X's in a column above each shape that represent the number of buttons that shape you have.

Write each color of button you have in the chart below. Place a tally mark for each button you have that is that color in the tally mark column next to it.

Shape	Tally Marks

Buttons

circle square oval star oval triangle heart

Colors

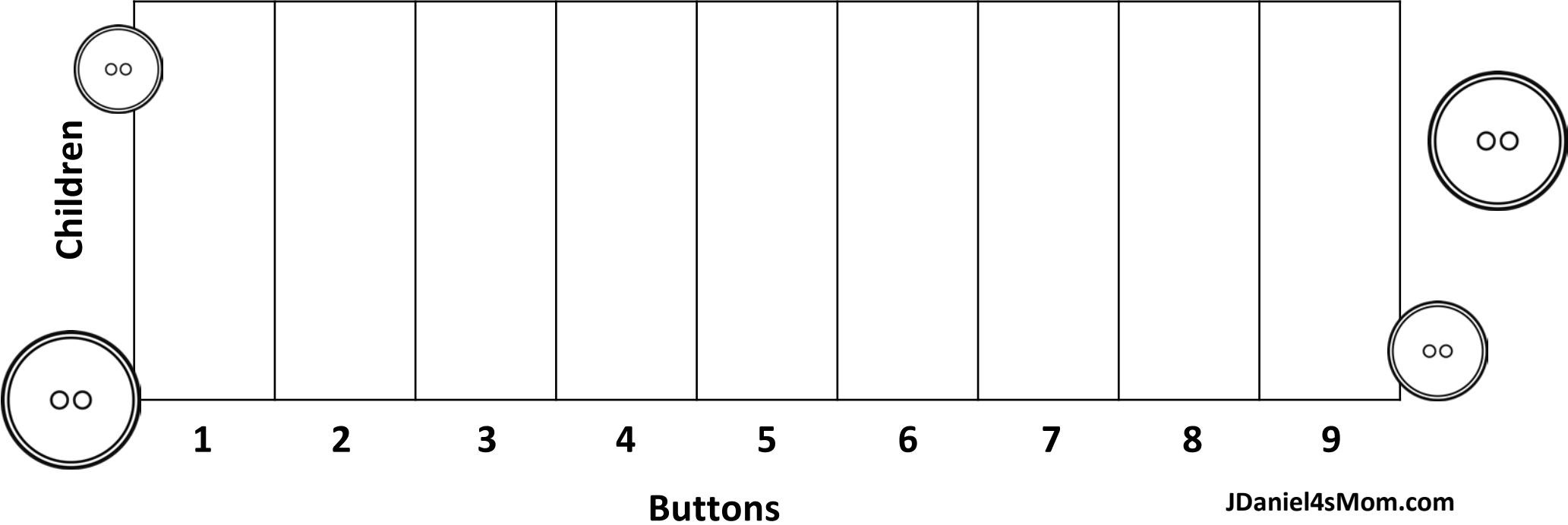
Name: \_\_\_\_\_

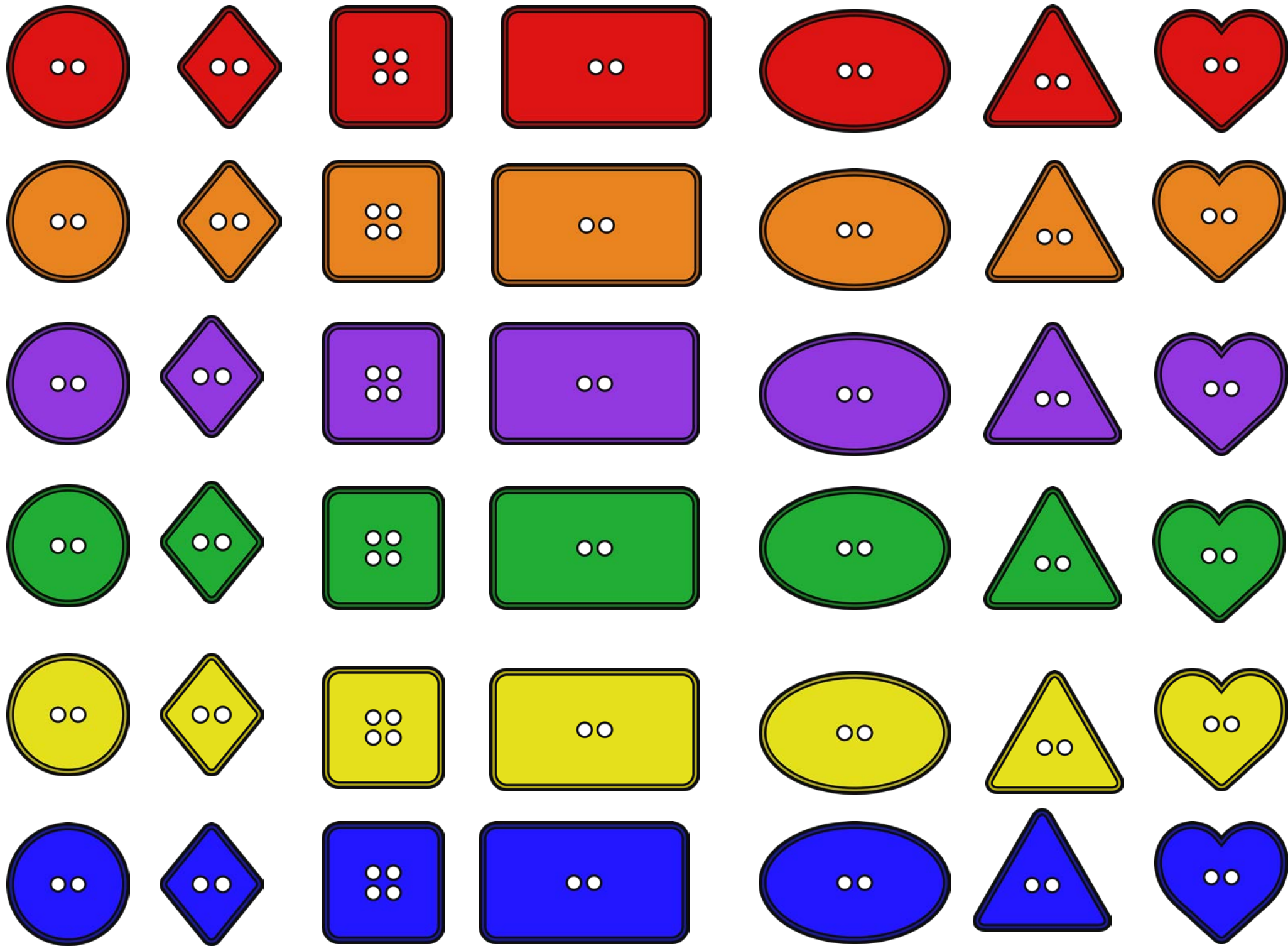
# How Many Buttons?

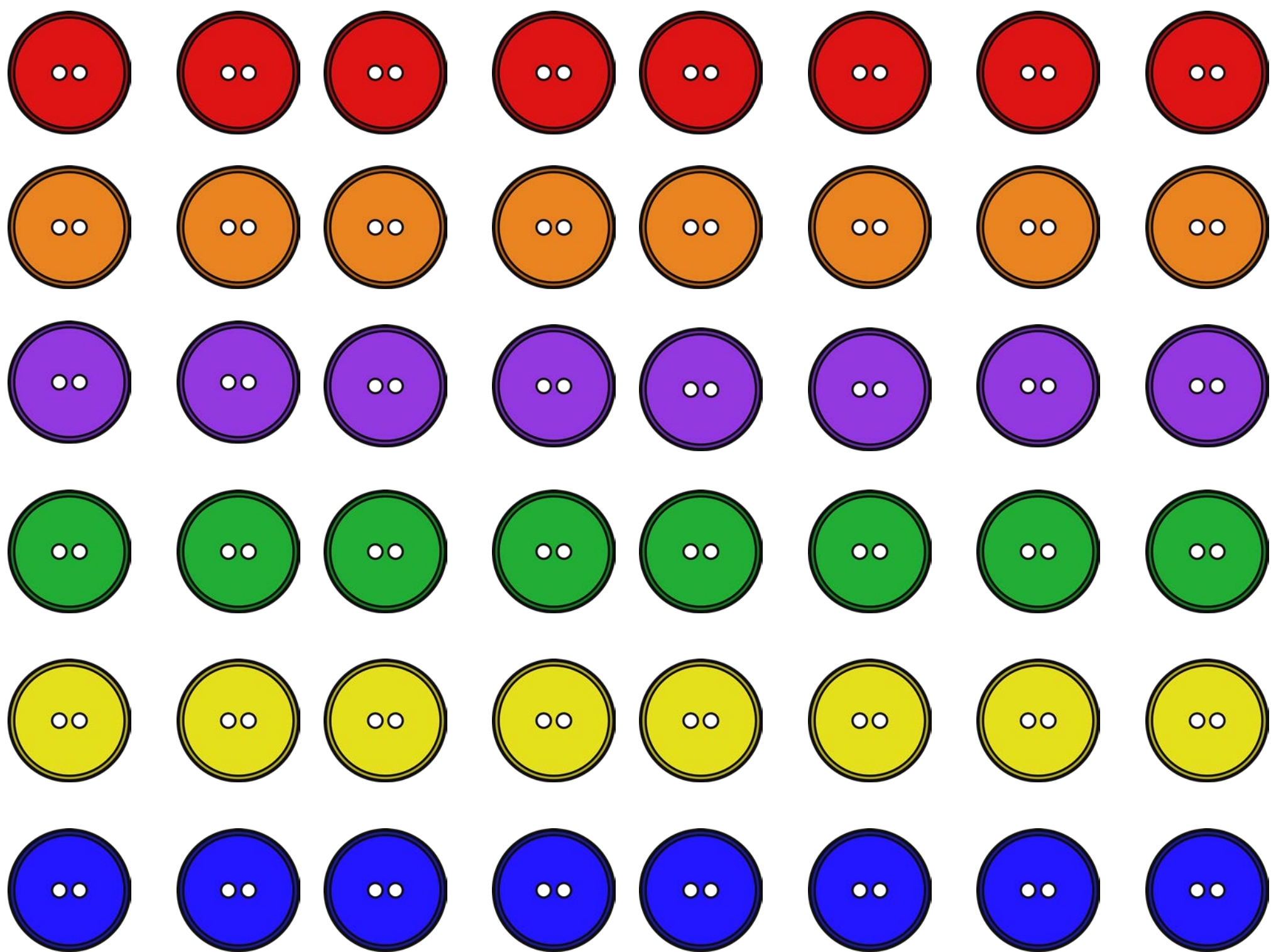
Twenty-five children were given bags of buttons. How many they each got is recorded below.

	7	3	8	9	2
	4	6	7	3	6
	7	6	5	9	5
	9	8	6	4	7
	5	4	9	9	3

Use the data above to complete the line plot below.









Thank you for this downloading this set.  
I hope your children enjoy this JDaniel4's Mom resource.

You will find updates on my latest tools on the following:

Instagram: <https://www.instagram.com/jdaniel4smom>

Facebook: <https://www.facebook.com/jdaniel4smom/>

Twitter: <https://twitter.com/jdaniel4smom?lang=en>

Pinterest: <https://www.pinterest.com/jdaniel4smom>

## What is in the set?

- Shape Button Page
- Colored Round Buttons Only Page
- How Many Buttons Leaf Plot Page
- Button STEM Challenge- Sorting by Button Shape
- Button STEM Challenge- Sorting by Button Color