Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Class \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Skittle Activity

Directions: Open your bag of skittles on the paper towel. Please **DO NOT** drop any on the floor. Sort the skittles by color and record the number in the corresponding box.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Red | Orange | Yellow | Green | Purple |
|  |  |  |  |  |

Create a dot plot of the data.

Red Orange Yellow Green Blue

Using the numbers in the box above, write your data set: \_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_

Using those 5 numbers, find the following: **SHOW ALL WORK**

Mean: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Median: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Mode: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Range: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Now, combine your data set with another person and record the data below:

\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_

Put the numbers in order and find the following: mean, median, mode, range, min, max, Q1, Q3, and IQR.

**SHOW ALL WORK**

Make a box and whisker plot and label the five number summary. Be sure to create an appropriate scale.

Take **your data only** and fill in the following chart. Simplify your fractions. Use the calculator to help.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Color | Amount | Fraction | Decimal | Percent |
| Red |  |  |  |  |
| Orange |  |  |  |  |
| Yellow |  |  |  |  |
| Green |  |  |  |  |
| Purple |  |  |  |  |

What color are you most likely to take out of the bag? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What color are you least likely to take out of the bag? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Use the students in your group to fill out the following table. SHOW ALL WORK in the space below.**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Table Data | | | | | | | **For each color, find…** | | |
| Student Initials | Your data |  |  |  |  |  | Mean | Median | Mode |
| Red |  |  |  |  |  |  |  |  |  |
| Orange |  |  |  |  |  |  |  |  |  |
| Yellow |  |  |  |  |  |  |  |  |  |
| Green |  |  |  |  |  |  |  |  |  |
| Purple |  |  |  |  |  |  |  |  |  |
| Total # |  |  |  |  |  |  |  |  |  |