Lesson 1 Hands-On: Jelly Beans

1. Open and stabilize the bag of jelly beans to sit on the counter.
2. Grab a piece of paper of 4 lines each of 5 columns per line at 16 characters per column.
3. As you complete the 3 counts from steps 4-6, write down your result as categorized within the Example table at the end of these instructions.
4. Visually determine by viewing the contents of the bag, while still inside of the bag, how many there are of each color category of jelly bean listing each of either pink, green, and yellow.
5. Run the test again, this time, you will shake the contents of the bag while pinching the top to enclose the jelly beans without letting them escape the bag. This will mix up the jelly beans to provide a different view; which will produce a second count of the same bag of jelly beans by visual determination to ensure your accuracy of your count during the first visual count.
6. Run the test again to create a third count result.
7. Take the average results from the three visual counts as written during each test.
8. Grab another 3 pieces of paper with 2 lines comprising of 6 characters per line.
   1. On the first paper, write Pink on the first line, then the average calculated from step 7 on the second line.
   2. On the second paper, write Green on the first line, then the average calculated from step 7 on the second line.
   3. On the third paper, write Yellow on the first line, then the average calculated from step 7 on the second line.
9. Determine from the average counts recorded on your 3 pieces of paper in step 8 the lowest count to the highest count.
10. Place each paper in accordance with the lowest to highest against the stationary cups.
    1. Place the lowest count average paper next to the stationary cup on the left.
    2. Place the middle count average paper next to the stationary cup in the middle.
    3. Place the highest count average paper next to the stationary cup on the right.
11. Pick up the bag of jelly beans to begin separating the colors as matched into the corresponding cups, pouring a single jelly bean from the bag as matched to the labeled cups.
12. Continue this process from step 11 until the bag is empty.
13. The final result of this process is now complete with all jelly beans separated by color and organized within the stationary cups from smallest to largest.

Example run:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Jelly Bean count | First visual | Second visual | Third visual | Average |
| Pink | 25 | 25 | 26 | 25 |
| Green | 24 | 28 | 30 | 27 |
| Yellow | 22 | 21 | 22 | 22 |