

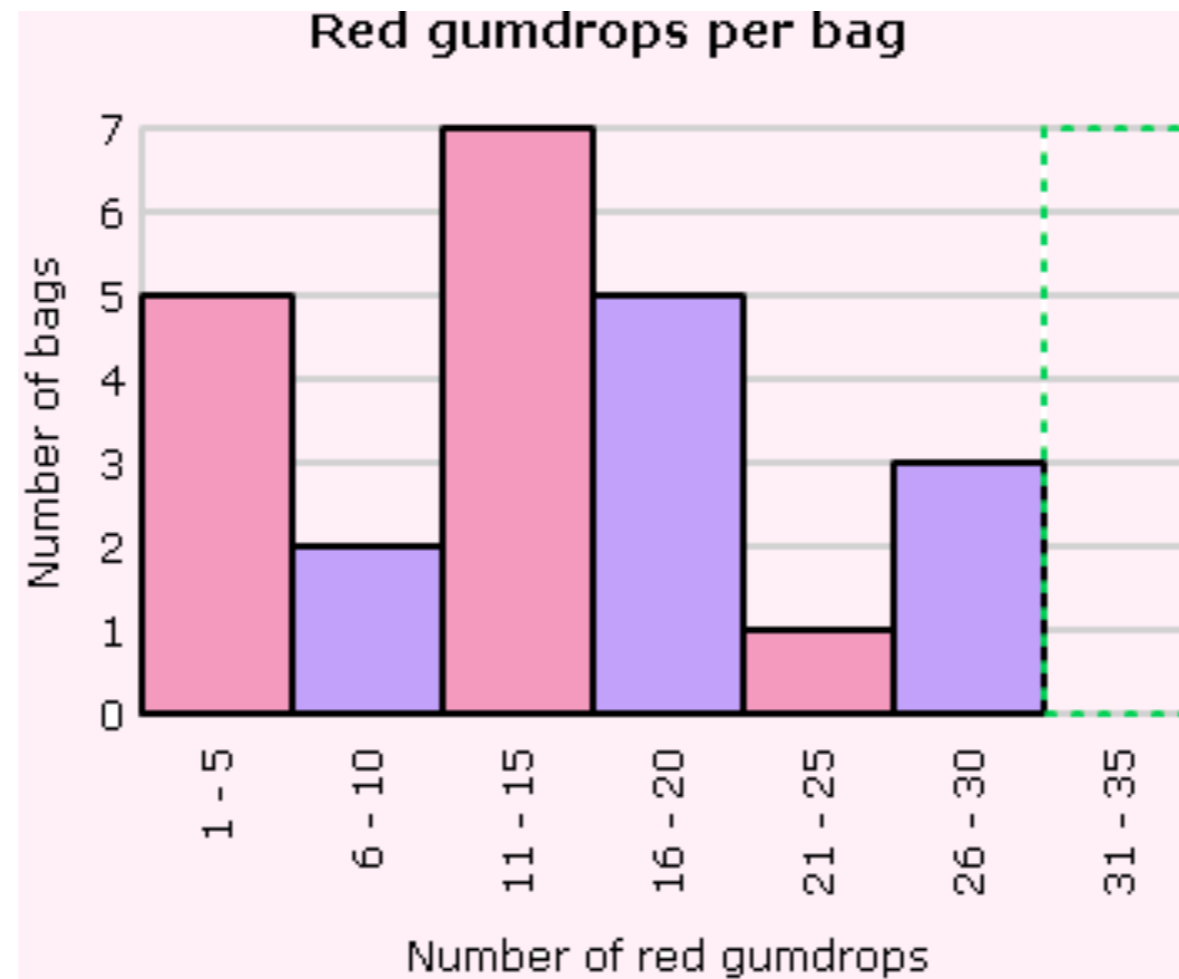
# Histograms

Don't trust the pictures



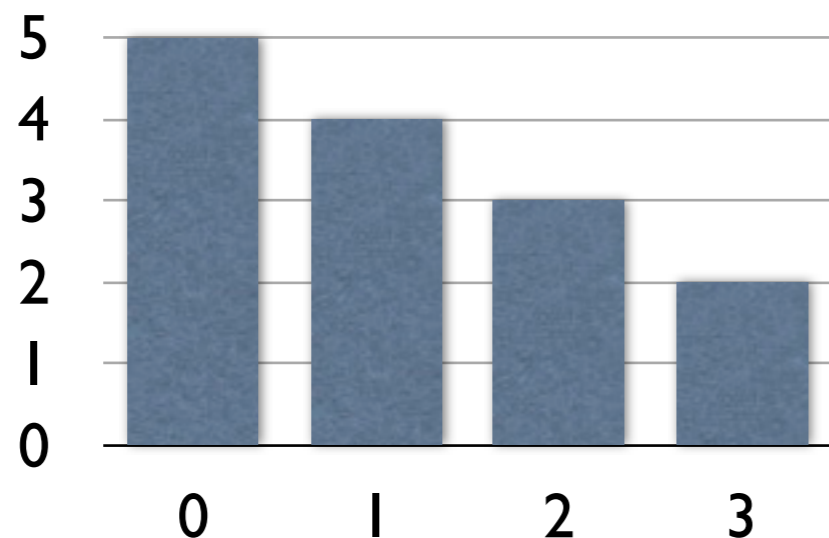
# Histograms

- A frequency chart represented by bar graphs (usually)



# Programming Concept

- Use an array
  - each value represents a column
  - every time you encounter an "item" that a column represents, you increase the value in the column by 1



0 is red candies  
1 is blue candies  
2 is green candies  
3 is orange candies

# In Code

```
int[] candyCount = new int[4];  
Candy[] candies = ...;  
  
for(int i = 0; i < candies.length; i++)  
{  
    if(candies[i].isRed())  
        candyCount[0]++;  
    //etc  
}
```

# In Code v2

```
int[] randomCount = new int[10];  
  
for(int i = 0; i < 1000; i++)  
{  
    int rand = (int)(Math.random()*9)+1;  
    randomCount[rand]++;  
}
```