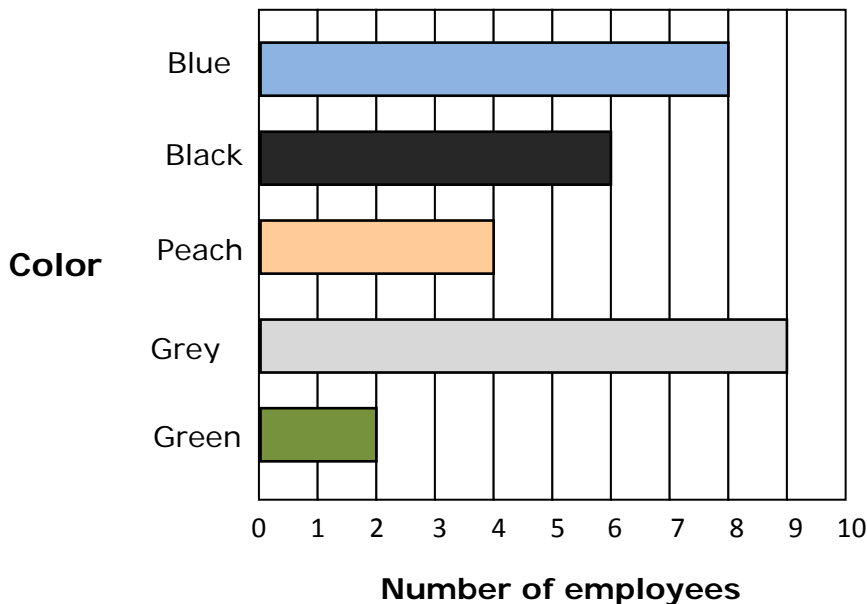


**Measures of Center and Variability - Step-by-Step Lesson****Statistics Problem:**

At Parcore Corporation employees wear different shirt colors based on their job. The graph below displays the latest shirt order. Find the median and mean of the data.

**Shirt colors****Explanation: For median**

We know that when the numbers are arranged from least to greatest, the median is the number in the middle. Let's first translate the graph into the integers the bars represent.

8, 6, 4, 9, 2

1) Arrange the numbers from least to greatest: 2, 4, 6, 8, 9

2) Find the number in the middle: 2, 4, **6**, 8, 9

The number in the middle is 6. The median is 6.



Name \_\_\_\_\_

Date \_\_\_\_\_

### **Explanation: For mean**

the mean is average of the numbers. We find the mean by adding the numbers together and then dividing by the number of numbers in the group.

1) Start with numbers from the bars on the graph: 8, 6, 4, 9, 2

2) Count how many numbers are in the group: There are 5 numbers.

3) Now we will add the numbers together.

$$8 + 6 + 4 + 9 + 2 = 29$$

4) We have to divide the sum by the number of numbers.

$$29 \div 5 = 5.8$$

So, the mean is 5.8.

