

**Restaurant Review: Data Organization****Table 1-A:** Overall Rating

Overall Rating	Frequency	Total Value (Rating x Frequency)
0.5		
1		
1.5		
2		
2.5		
3		
3.5		
4		
4.5		
5		

**Table 1-B:** Overall Rating (Intervals)

Overall Rating	Frequency
0.5 to < 1.5	
1.5 to < 2.5	
2.5 to < 3.5	
3.5 to < 4.5	
4.5 to < 5.5	

**# of data points**

= # of \_\_\_\_\_

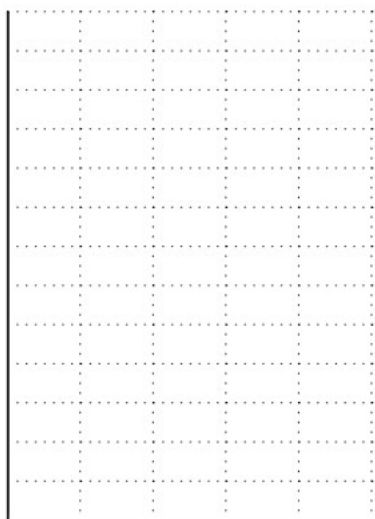
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**Task 1**

Using **Table 1-A**, calculate the **mean** of the overall ratings that your classmate gave to the restaurant.

**Task 2**

Using **Table 1-B**, create a histogram displaying the frequency of the data points in each interval.



1. Write a statistical question that can be answered with the data.
2. Describe the data distribution regarding its **skew**, **cluster**, and **outliers**. *How can you use the information to answer your statistical question?*
3. Locate the **mean** (from Task 1) on the histogram and draw a line to mark it. *How can you check that your mean is correct?*

**Table 2-A:** Favorite Dish type

Favorite Dish type	Frequency
Sushi	
Rice	
Noodles	
Meat	
Seafood	
Dessert	

**Table 2-B:** Favorite Dish type in order of frequency from **highest to lowest**.

Favorite Dish type	Frequency

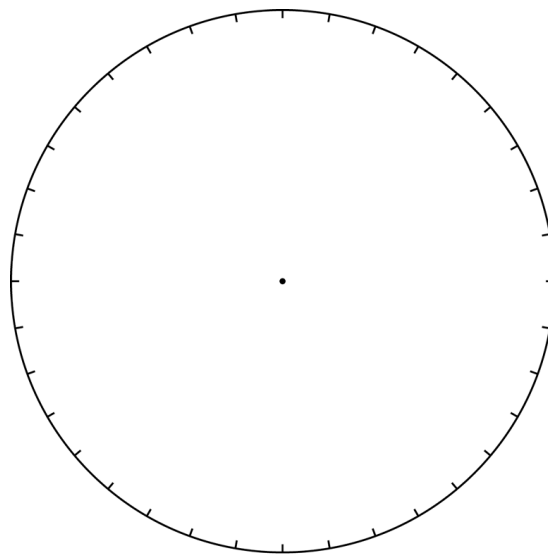
**Task 3**

Using **Table 2-B**, calculate the **percentages** ( $\frac{\text{part}}{\text{whole}} \times 100$ ) of responses for each category. Round decimals to the nearest tenth.

- Category 1: \_\_\_\_\_ Percentage = \_\_\_\_\_ %
- Category 2: \_\_\_\_\_ Percentage = \_\_\_\_\_ %
- Category 3: \_\_\_\_\_ Percentage = \_\_\_\_\_ %
- Category 4: \_\_\_\_\_ Percentage = \_\_\_\_\_ %
- Category 5: \_\_\_\_\_ Percentage = \_\_\_\_\_ %
- Category 5: \_\_\_\_\_ Percentage = \_\_\_\_\_ %

**Task 4**

Draw a pie chart that displays the data from the category with the highest percentage to the lowest percentage.



What was the most popular dish type in your class? \_\_\_\_\_

What was the least popular dish type in your class? \_\_\_\_\_