**Graphing Data**

Evaluate the data set below, and create two graphs using the graph paper provided. One graph should compare the mean of the grades on the final exam for Class A vs. Class B. The other graph should compare the frequency of letter grades for Class A vs. Class B. Use the chart provided to classify grades by letter.

|  |  |
| --- | --- |
| **Letter Grade** | **Exam Score** |
| A | 90-100+ |
| B | 80-89.99 |
| C | 70-79.99 |
| D | 60-69.99 |
| F | Below 60 |

1. What type of graph will you create to compare the mean of the grades on the final exam for Class A vs. Class B?

a. line graph

b. bar graph

c. scatter plot

d. histogram

Calculate the mean grade for Class A: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Calculate the mean grade for Class B: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*Graph 1*



2. What type of graph will you create to compare the frequency of letter grades for Class A vs. Class B?

a. line graph

b. bar graph

c. scatter plot

d. histogram

What information do you need to create this graph? Organize your data to create this type of graph here:

*Graph 2*



3. Write a 3-sentence conclusion comparing Class A to Class B. Use data from both Graph 1 and Graph 2 in your conclusion.

 **Final Exam Grades**

 **Class A Class B**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 98 |  |  |  |  | 105 |
| 97 |  |  |  |  | 101.5 |
| 93 |  |  |  |  | 101 |
| 92 |  |  |  |  | 100.5 |
| 89 |  |  |  |  | 99 |
| 88 |  |  |  |  | 99 |
| 88 |  |  |  |  | 98 |
| 88 |  |  |  |  | 94 |
| 87 |  |  |  |  | 92 |
| 84.5 |  |  |  |  | 88 |
| 84.5 |  |  |  |  | 85 |
| 84.5 |  |  |  |  | 84 |
| 83 |  |  |  |  | 83 |
| 82 |  |  |  |  | 82 |
| 81 |  |  |  |  | 80 |
| 80 |  |  |  |  | 80 |
| 80 |  |  |  |  | 78 |
| 79 |  |  |  |  | 75 |
| 77 |  |  |  |  | 75 |
| 76 |  |  |  |  | 73 |
| 75 |  |  |  |  | 73 |
| 74 |  |  |  |  | 72.5 |
| 74 |  |  |  |  | 72 |
| 74 |  |  |  |  | 72 |
| 74 |  |  |  |  | 72 |
| 66 |  |  |  |  | 72 |
| 66 |  |  |  |  | 72 |
| 65 |  |  |  |  | 71 |
| 63 |  |  |  |  | 71 |
| 62 |  |  |  |  | 71 |
| 61 |  |  |  |  | 68 |
| 61 |  |  |  |  | 68 |
| 60 |  |  |  |  | 66 |
| 56 |  |  |  |  | 66 |
| 56 |  |  |  |  | 66 |
| 55 |  |  |  |  | 66 |
| 54 |  |  |  |  | 65 |
| 53 |  |  |  |  | 63 |
| 52 |  |  |  |  | 63 |
| 51 |  |  |  |  | 22 |