

You just took a test in your math class and want to know if the distribution of grades follows a normal distribution. Your teacher gave you the scores of all the students in your class.

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| --- | --- | --- | --- |
| 100 | 68 | 75 | 74 |
| 74 | 73 | 88 | 85 |
| 81 | 79 | 65 | 97 |
| 35 | 93 | 91 | 85 |
| 78 | 69 | 87 | 95 |

1. How many students do you have in your class?
2. What was the class mean?
3. What was the class median?
4. Find the five-number summary

Low:

Q1:

Q2:

Q3:

High:

1. Calculate the interquartile range.
2. Are there any outliers?
3. Create a boxplot.
4. Does the data appear to be normally distributed? Explain why it is or is not?
5. Which measure of central tendency (the mean or median) better reflects how the class performed?