

1. Which of the following best describes the purpose of a QQ plot?

1 / 1 point

- ☐ To visualize the distribution of a dataset
- ☐ To visualize the relationship between two datasets
- ☒ To test for normality of a dataset
- ☐ To test for independence between two datasets

✔ Correct

Correct! The main purpose of a QQ plot is to test for normality of a dataset.

2. Which of the following is true about a box plot with a long whisker on the upper end?

1 / 1 point

- ☐ The data is negatively skewed
- ☒ The data is positively skewed
- ☐ The data is normally distributed
- ☐ There are no outliers

✔ Correct

Correct! A box plot with a long whisker on the upper end is an indication of positively skewed data.

3. Which of the following is a correct statement regarding a QQ plot?

1 / 1 point

- ☐ If the points fall close to the diagonal, the data is not normally distributed
- ☒ If the points fall close to the diagonal line, the data is normally distributed

✔ Correct

Correct! If the points fall close to the diagonal line, it indicates that the data is normally distributed.

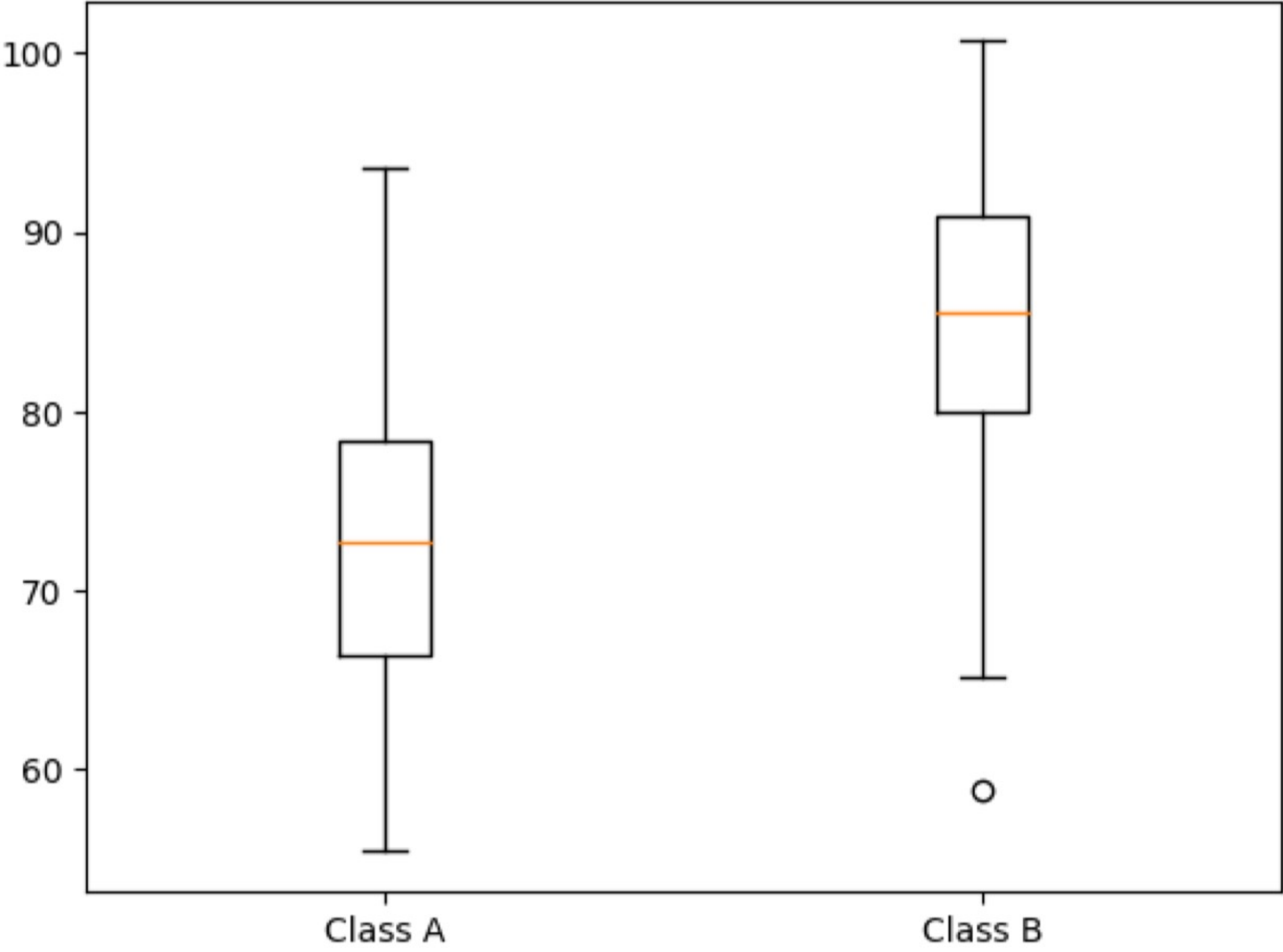
- ☐ If the points fall far from the diagonal line, the data is normally distributed
- ☒ If the points fall far from the diagonal line, the data is not normally distributed

✔ Correct

Correct! If the points fall far from the diagonal line, it indicates that the data is not normally distributed.

4. Consider the following box plot for the test scores of two classes, A and B:

1 / 1 point



Which of the following statements is true?

- ☐ The median score of Class A is higher than the median score of Class B.
- ☒ The median score of Class B is higher than the median score of Class A.

✔ Correct

Correct! Looking at the box plot, we can see that the median of Class A is around 75, while the median of Class B is around 85.

- ☒ The interquartile range of Class A is larger than the interquartile range of Class B.

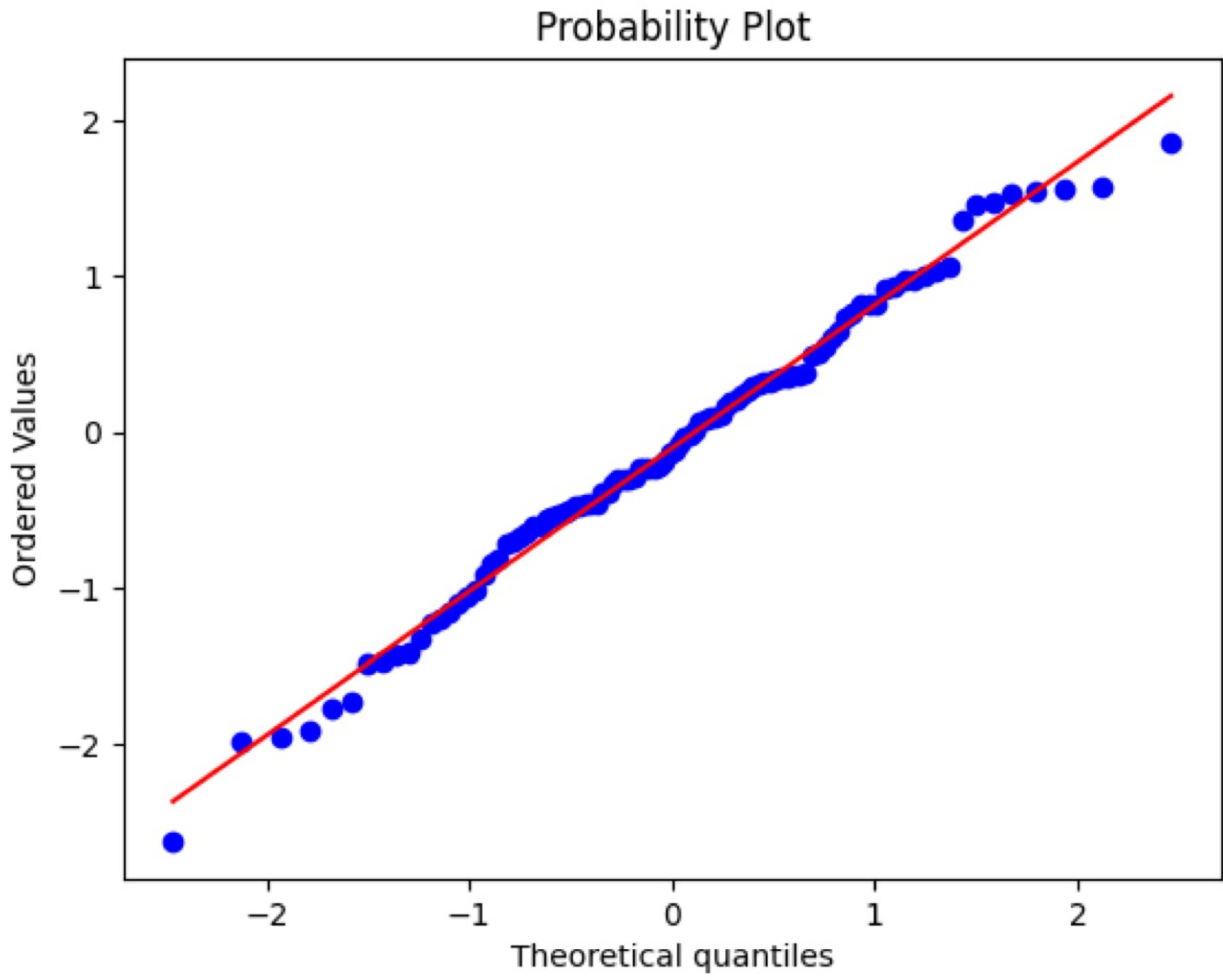
✔ Correct

Correct! The rectangle in A is bigger than B.

- ☐ The interquartile range of Class B is larger than the interquartile range of Class A.

5. Consider the following QQ plot for a set of data:

1 / 1 point



Which of the following statements is true?

- ☒ The data looks normally distributed.
- ☐ The data is not normally distributed.
- ☐ The data has a higher variance than a normal distribution.
- ☐ The data has a lower variance than a normal distribution.

✔ Correct

The QQ plot compares the observed data with the theoretical quantiles of a normal distribution. If the points lie close to the diagonal line, then the data is likely normally distributed.