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Congratulations! You passed!

Grade received 100%

Latest Submission Grade 100%

To pass 80% or higher

Go to next item

1.

Among dimension reduction, what technique exist to visualize more than three dimensions in a single plot? (Select all that apply)

1 / 1 point

- ☒ Color coding for discrete dimensions
- ☒ Using different symbols apart from simple points for discrete dimensions

✔

Correct

Correct

- ☐ Sum Kurtosis and Skewness together for each row
- ☐ Calculate the Standard Deviation of each row
- ☐ Apply Fast Fourier Transformation
- ☒ Add multiple lines to a run chart

✔

Correct

Correct

2.

What properties are true about PCA for dimension reduction? (Select all that apply)

1 / 1 point

- ☐ PCA removes the dimensions with the highest correlation because their information content is lowest
- ☒ PCA is a linear transformation, this means most of the original propertes of your data are preserved
- ☒ PCA transforms your dataset so that the first k dimensions have the lowest correlation among each other

✔

Correct

Correct

✔

Correct

Correct

- ☐ PCA is a non-linear transformation, this means most of the original properties of your data set are lost

3.

Which of the following statements is true about information loss using PCA?

1 / 1 point

- ☐ PCA dimensionality reduction is lossless
- ☒ PCA dimensionality reduction is lossy

✔

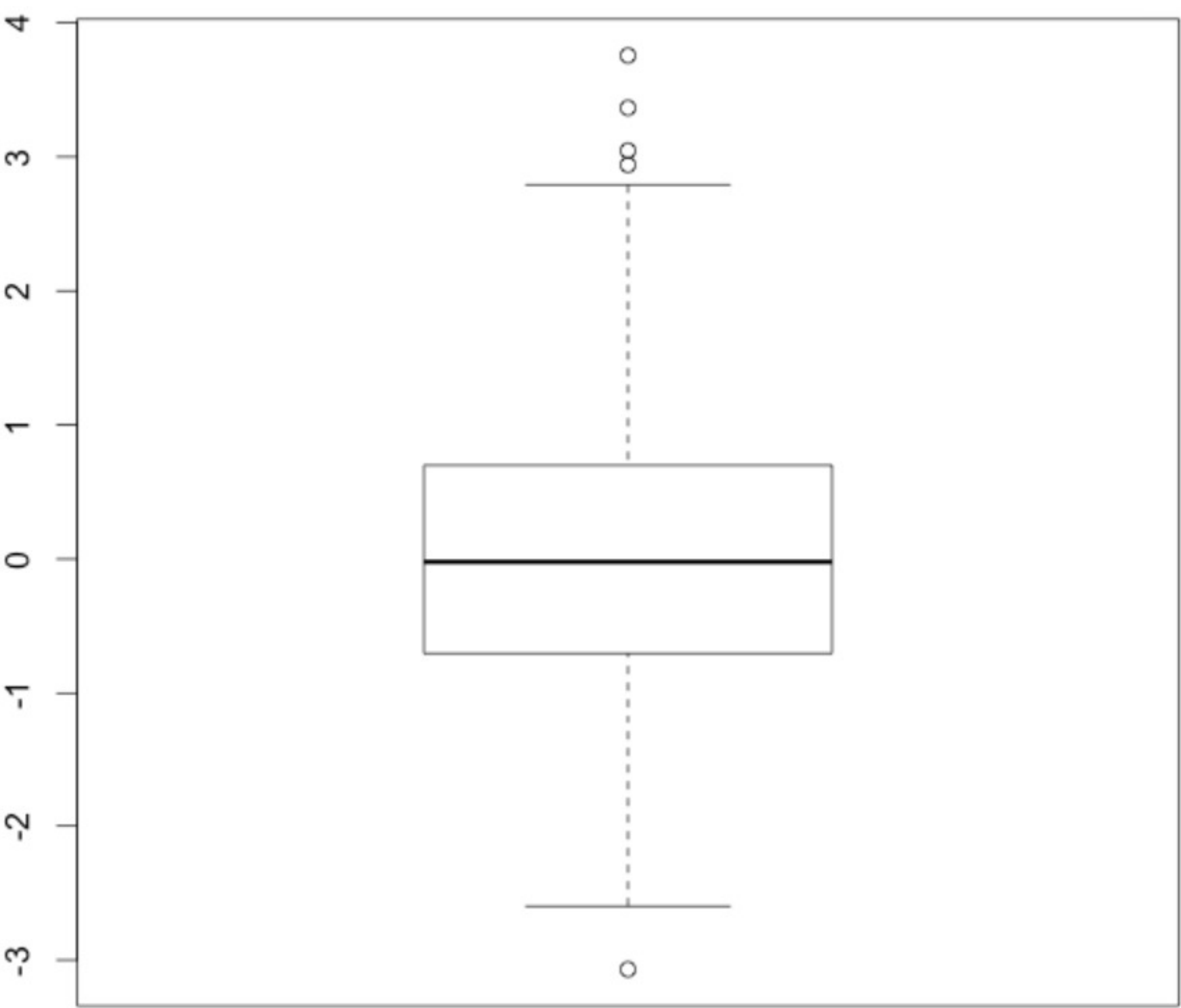
Correct

Correct

4.

How many outliers are present in this dataset?

1 / 1 point



5

✔

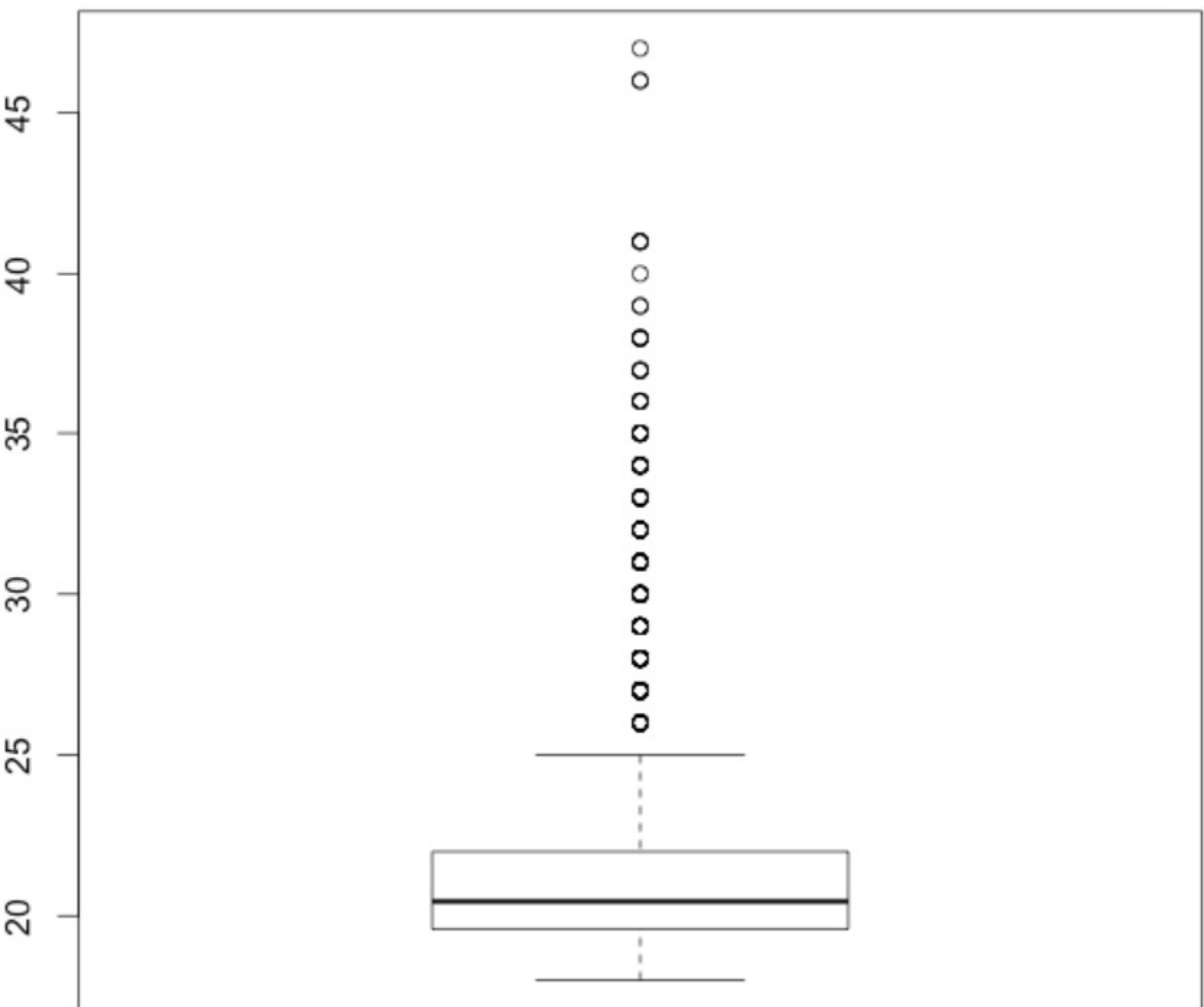
Correct

Correct

5.

Which statements are true about this plot? (select all that apply)

1 / 1 point



- ☒ This is a box plot

✔

Correct

Correct

- ☐ This is a star ship of space invaders

- ☒ There are more than 15 outliers present

✔

Correct

Correct

- ☐ The distribution is centered around mean zero

- ☐ Kurtosis is zero
- ☒ Kurtosis is >1

✔

Correct

Correct

- ☐ Skew is zero
- ☒ Skew is > 1

✔

Correct

Correct

- ☒ >50% of all values are <30

✔

Correct

- ☒ Median is >20

✔

Correct

- ☐ >50% of all values are >30