

ECON221 V26 Quiz 01

Below you will find two definitions of a percentile:

- For any percentage of the data, there is a corresponding percentile – a value that leaves that percentage of the data below it.
- For a set of measurement arranged in increasing order, the p th percentile is a value such that p percent of the measurements fall at or below it.

The median is also called the 50th percentile. The interquartile range (IQR) is the difference between the 75th and the 25th percentile.

Questions

1. (2 points) If the median size used by 500 songs is 3.5 MB, will these all fit on USB that has 2000 MB of storage? Can you tell? Explain.
2. (3 points) Provide a rough value (and enough detail to support your answer) for the median and IQR given the following information:

Interval	Frequency
10-13	3
13-16	14
16-19	23
19-22	12
22-25	8
25-28	4
28-31	1

ECON221 V27 Quiz 01

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The median is also called the 50th percentile. The interquartile range (IQR) is the difference between the 75th and the 25th percentile.

Questions

1. (2 points) If the median size used by 500 pictures is 2.5 MB, will these all fit on a phone that has 1500 MB of storage? Can you tell? Explain.
2. (3 points) Provide a rough value (and enough detail to support your answer) for the median and IQR given the following information:

Interval	Frequency
2000-3000	6
3000-4000	8
4000-5000	14
5000-6000	18
6000-7000	17
7000-8000	13
8000-9000	4