

Histogram Worksheets

The frequency table below shows the seating capacity of arenas for NBA basketball teams.

Number of Seats	Tally	Frequency
17,000–< 17,500		2
17,500–< 18,000		1
18,000–< 18,500		6
18,500–< 19,000		5
19,000–< 19,500		5
19,500–< 20,000		5
20,000–< 20,500		2
20,500–< 21,000		2
21,000–< 21,500		0
21,500–< 22,000		0
22,000–< 22,500		1

a) Draw a histogram for the number of seats in the NBA arenas data.

b) What is the width of each interval? How do you know?

c) Describe the shape of the histogram.

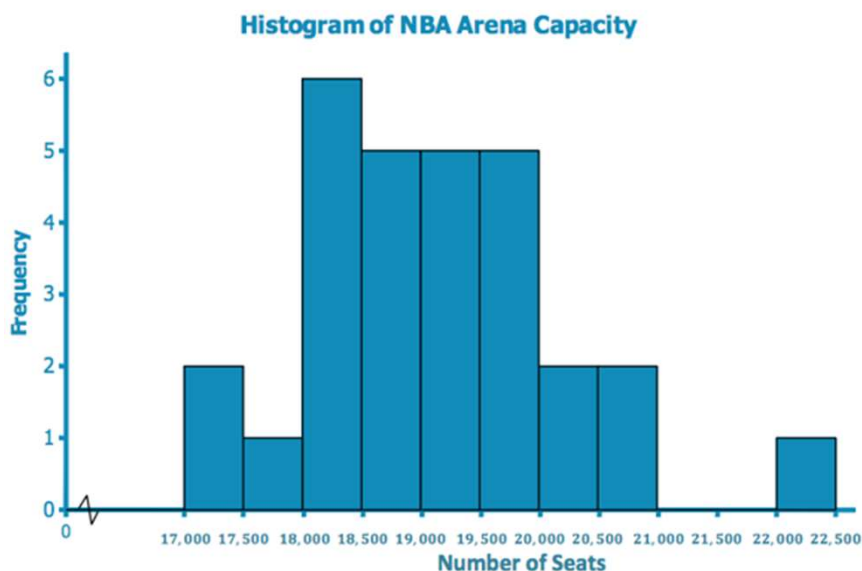
d) Which interval describes the center of the number of seats data?

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20,500–< 21,000		2
21,000–< 21,500		0
21,500–< 22,000		0
22,000–< 22,500		1

a) Draw a histogram for the number of seats in the NBA arenas data.



b) What is the width of each interval? How do you know?

The width of each interval is 500.

Subtract the values identifying an interval.

c) Describe the shape of the histogram.

The shape of the histogram is skewed to the right.

d) Which interval describes the center of the number of seats data?

The interval of 19,000 to 19,500 describes the center. (Answers may vary, but student responses should be around the center of the data distribution.)

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