

Name: _____

Show work needed to justify your answer.

Date: _____

HW: # 23: Math IBSL - Standard 22 - Sampling

5 points

2 This list shows the number of hours spent studying, per student per month, for a class of IB Mathematics students.

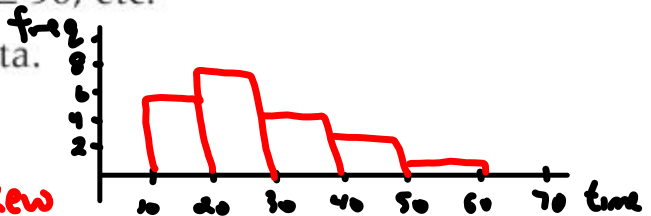
50, 49, 15.25, 21.35, 12, 18, 34, 22.51, 45, 24, 30, 20, 52, 26, 23, 40, 15.75, 24, 28.8, 18.6, 35, 40, 38

- a Is the data discrete or continuous?
- b Construct a frequency table with class intervals $10 < t \leq 20$, $20 < t \leq 30$, etc.
- c Draw a histogram for this data.
- d Describe the skew.

To the Right / Positive skew

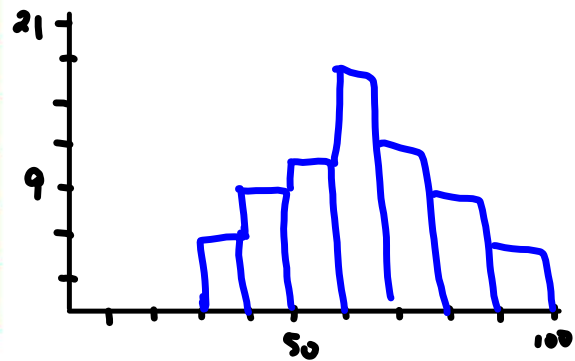
A. Continuous.

time	frequency
$10 < t \leq 20$	6
$20 < t \leq 30$	8
$30 < t \leq 40$	5
$40 < t \leq 50$	3
$50 < t \leq 60$	1



3 The masses of a group of children are recorded in the grouped frequency table below.

Mass (m , kg)	f
$30 < m \leq 40$	6
$40 < m \leq 50$	10
$50 < m \leq 60$	12
$60 < m \leq 70$	18
$70 < m \leq 80$	13
$80 < m \leq 90$	9
$90 < m \leq 100$	5



- a Is the data discrete or continuous?
- b Draw a histogram for this data.
- c Describe the skew. Normal Distribution

Name: _____

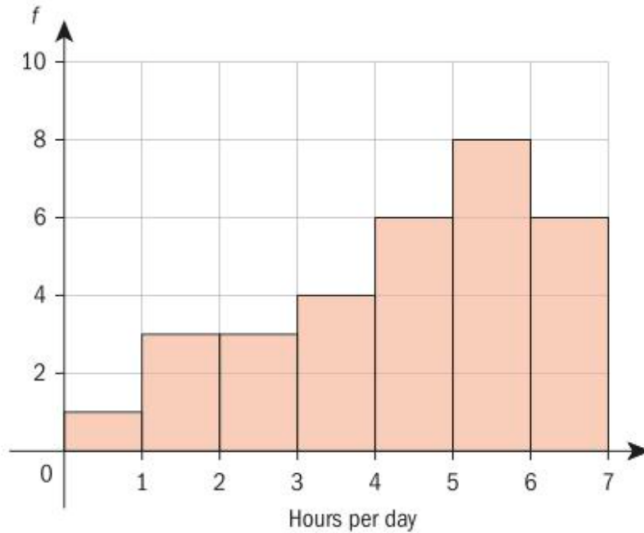
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HW: # 23: Math IBSL - Standard 22 - Sampling

5 points

- 5 The number of hours that a professional tennis player trains each day in the month of May is represented in this histogram.



- a Construct a frequency table with classes of $0 < h \leq 1$, $1 < h \leq 2$, etc. for this data.
- b Describe the skew.

Negative skew.
skewed to the left.

(a)

hours	freq
$0 < h \leq 1$	1
$1 < h \leq 2$	3
$2 < h \leq 3$	3
$3 < h \leq 4$	4
$4 < h \leq 5$	6
$5 < h \leq 6$	8
$6 < h \leq 7$	6