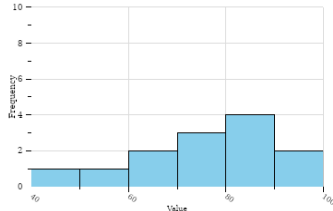


Construct and interpret histograms

1 What is the modal class?



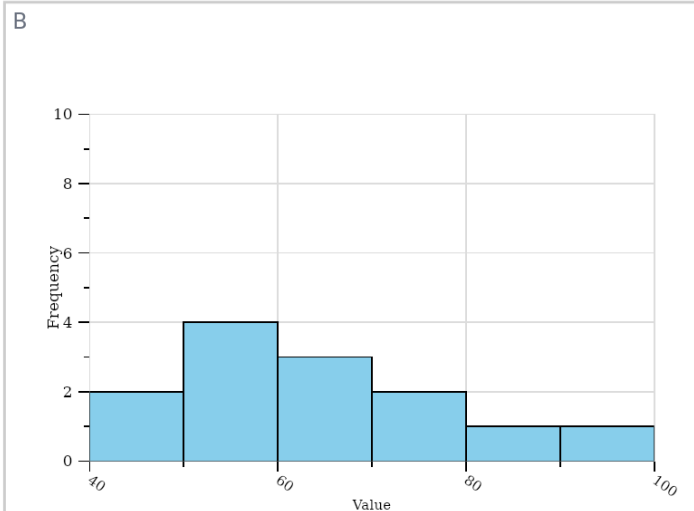
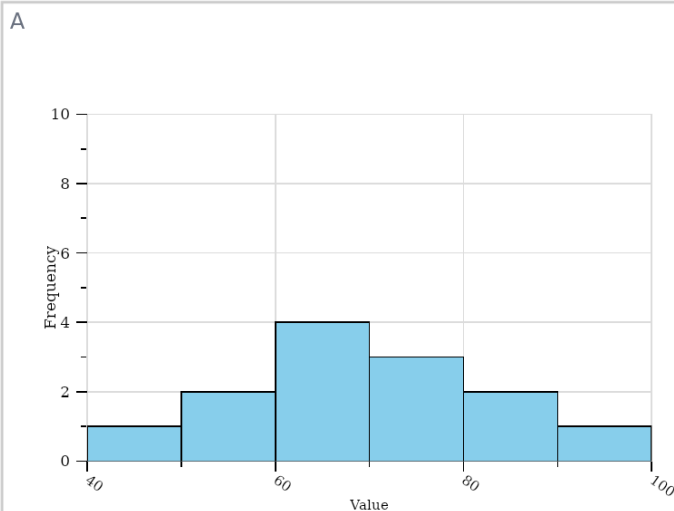
- A [60, 70) B [80, 90) C [50, 60) D [40, 50)

2 What distribution type does this frequency table suggest?

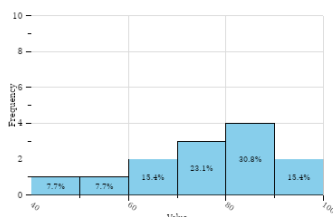
Class	[40, 50)	[50, 60)	[60, 70)	[70, 80)	[80, 90)	[90, 100)
Freq	2	2	2	2	2	2

- A right-skewed B approximately symmetric C uniform D left-skewed

3 Modal Class: (50,60)

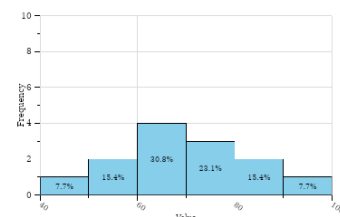


4 What percent of values are over 90?

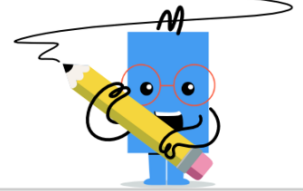


- A 5% B 25% C 15% D 85%

5 What percent of values are between 60 and 80?



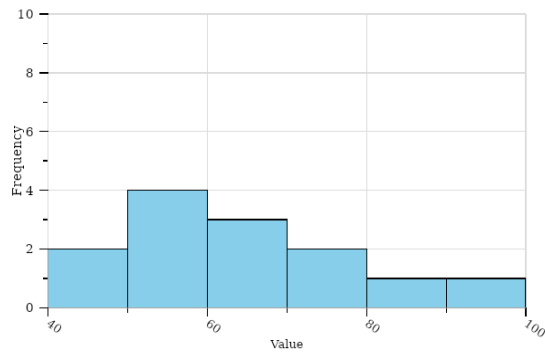
- A 54% B 46% C 64% D 44%



Construct and interpret histograms

6

Which frequency table has modal class [50, 60)?



A

$\begin{array}{c|c|c|c|c|c} [40, 50) & [50, 60) & [60, 70) & [70, 80) & [80, 90) & [90, 100) \\ \hline 2 & 4 & 3 & 2 & 1 & 1 \end{array}$

B

$\begin{array}{c|c|c|c|c|c} [40, 50) & [50, 60) & [60, 70) & [70, 80) & [80, 90) & [90, 100) \\ \hline 2 & 3 & 4 & 2 & 1 & 1 \end{array}$

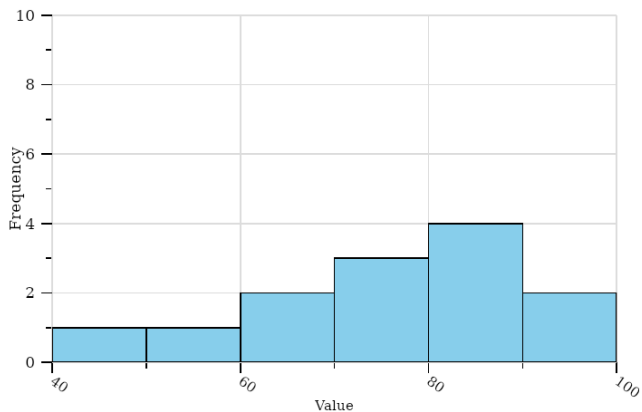
C

$\begin{array}{c|c|c|c|c|c} [40, 50) & [50, 60) & [60, 70) & [70, 80) & [80, 90) & [90, 100) \\ \hline 2 & 3 & 4 & 2 & 1 & 1 \end{array}$

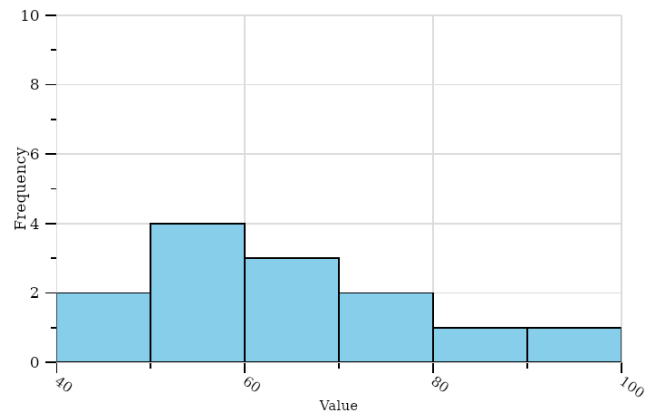
7

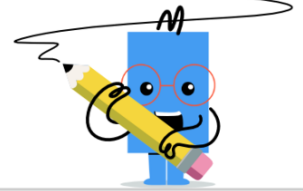
Right-skewed Distribution

A



B

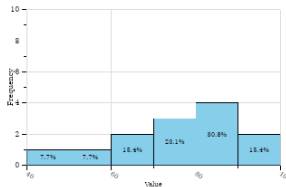




Construct and interpret histograms

8

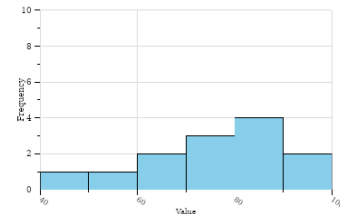
What value is above 54% of the full set of data?



- A 90 B 80 C 70 D 100

9

Estimate Q3 from this histogram.

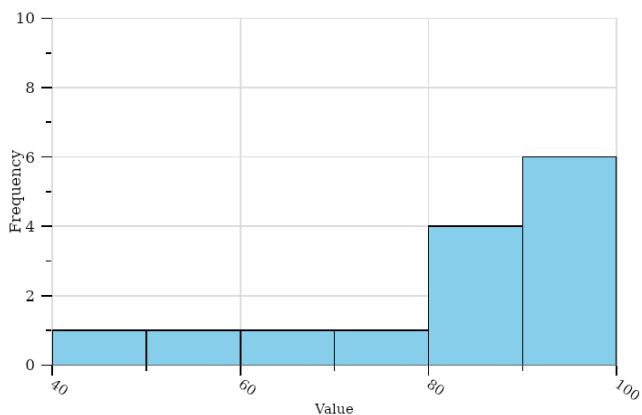


- A 86.5 B 116.5 C 106.5 D 66.5

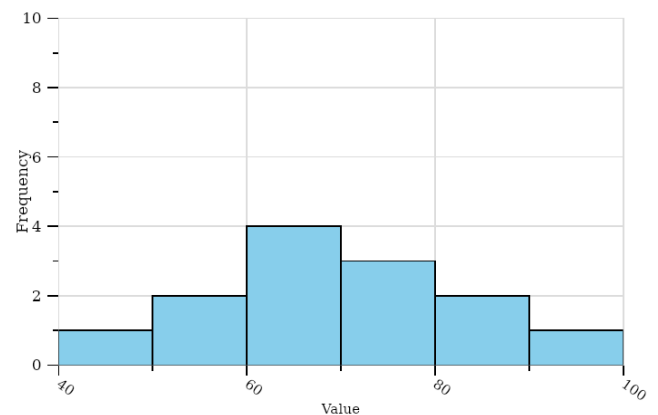
10

Median=68

A

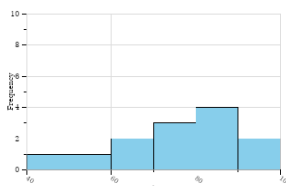


B



11

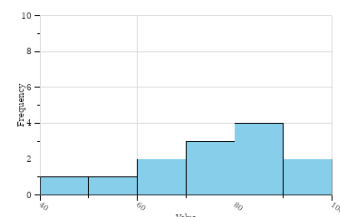
What is the distribution type of this histogram?



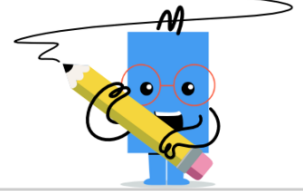
- A uniform B left-skewed C right-skewed D approximately symmetric

12

Estimate the median from this histogram.



- A 56 B 96 C 106 D 76

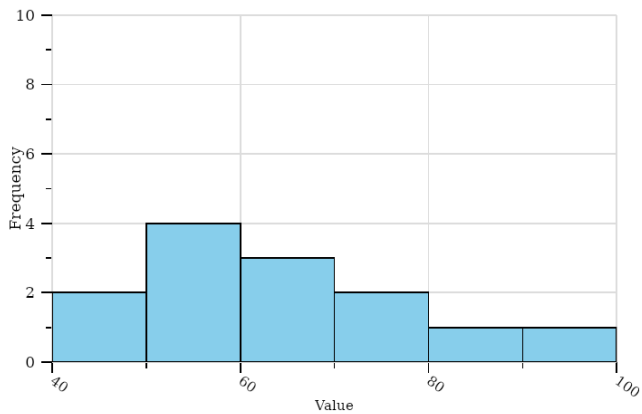


Construct and interpret histograms

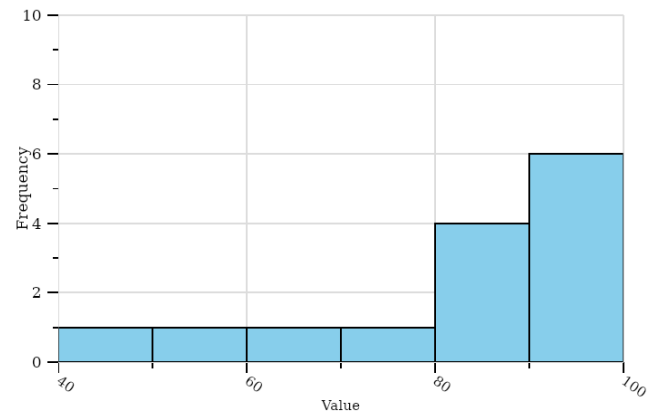
13

$Q1 = 51.5$

A

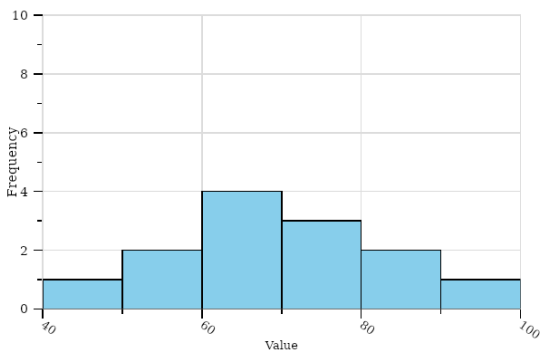


B



14

Which frequency table matches this histogram?



A

Value 40 50 60 70 80 90 100
Frequency 1 2 4 3 2 1

B

Value 40 50 60 70 80 90 100
Frequency 1 2 4 3 2 1

C

Value 40 50 60 70 80 90 100
Frequency 1 2 4 3 2 1