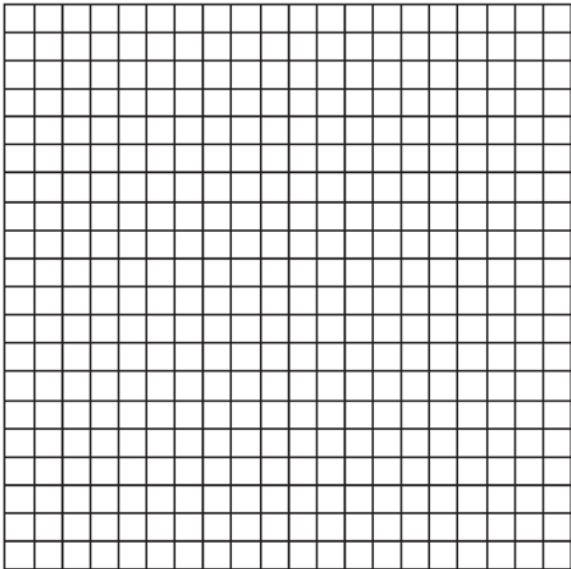


A.S.5: Frequency Histograms, Bar Graphs and Tables 2: Construct a histogram, cumulative frequency histogram, and a box-and-whisker plot, given a set of data

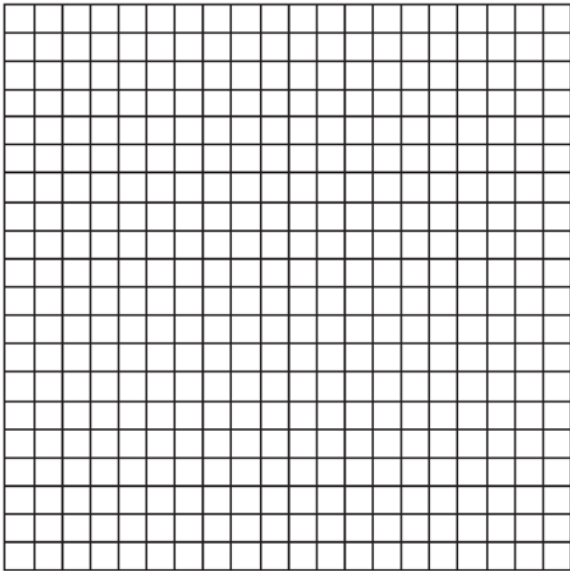
- 1 The accompanying table shows the weights, in pounds, for the students in an algebra class. Using the data, complete the cumulative frequency table and construct a cumulative frequency histogram on the grid below.

Interval	Frequency	Cumulative Frequency
91–100	6	
101–110	3	
111–120	0	
121–130	3	
131–140	0	
141–150	2	
151–160	2	



- 2 The following data consists of the weights, in pounds, of 30 adults:
 195, 206, 100, 98, 150, 210, 195, 106, 195, 168, 180, 212, 104, 195, 100, 216, 195, 209, 112, 99, 206, 116, 195, 100, 142, 100, 135, 98, 160, 155
 Using the data, complete the accompanying cumulative frequency table and construct a cumulative frequency histogram on the grid below.

Interval	Frequency	Cumulative Frequency
51–100		
101–150		
151–200		
201–250		



- 3 Twenty students were surveyed about the number of days they played outside in one week. The results of this survey are shown below.
 {6,5,4,3,0,7,1,5,4,4,3,2,2,3,2,4,3,4,0,7}
 Complete the frequency table below for these data.

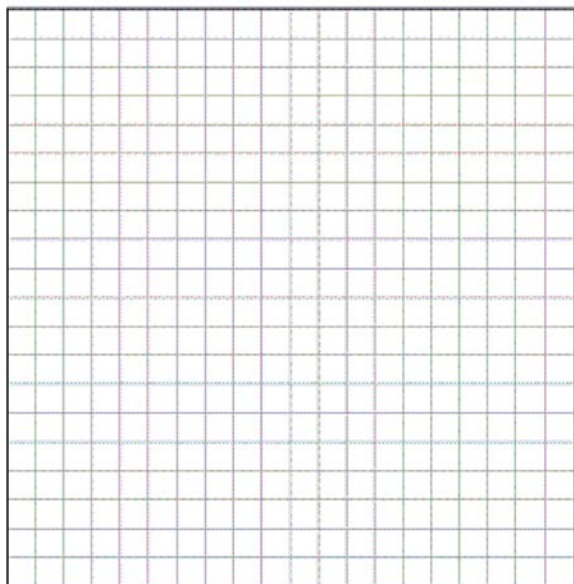
Interval	Tally	Frequency
0–1		
2–3		
4–5		
6–7		

Complete the cumulative frequency table below using these data.

Number of Days Outside

Interval	Cumulative Frequency
0–1	
0–3	
0–5	
0–7	

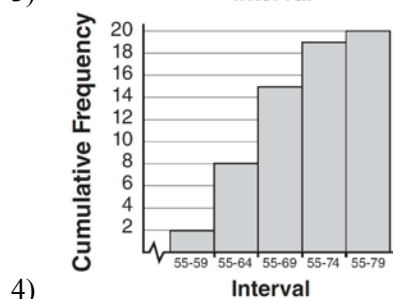
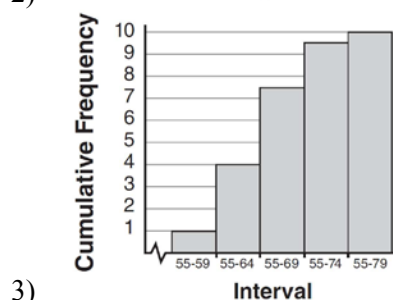
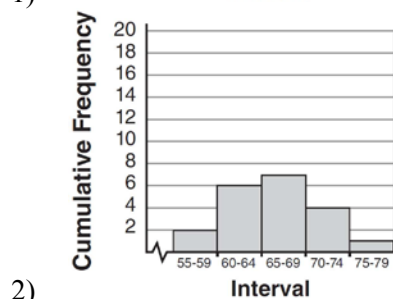
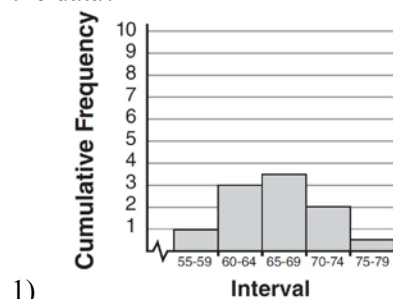
On the grid below, create a cumulative frequency histogram based on the table you made.



- 4 Mr. Suppe recorded the height, in inches, of each student in his class. The results are recorded in the table below.

60	59	70	65	64
61	58	72	75	66
65	67	63	62	68
68	69	74	61	70

Which cumulative frequency histogram represents the data?

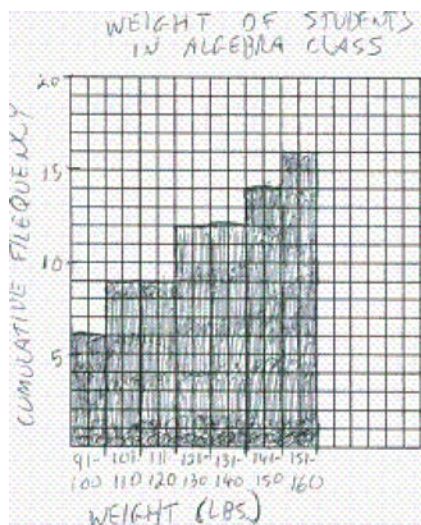


A.S.5: Frequency Histograms, Bar Graphs and Tables 2: Construct a histogram, cumulative frequency histogram, and a box-and-whisker plot, given a set of data

Answer Section

1 ANS:

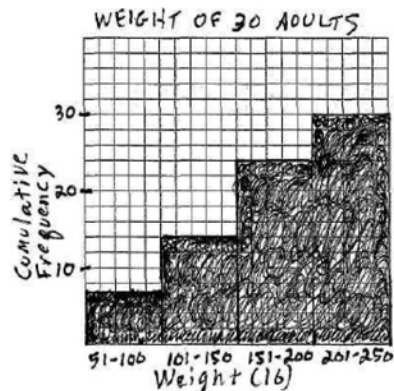
Interval	Frequency	Cumulative Frequency
91-100	6	6
101-110	3	9
111-120	0	9
121-130	3	12
131-140	0	12
141-150	2	14
151-160	2	16



REF: 010739a

2 ANS:

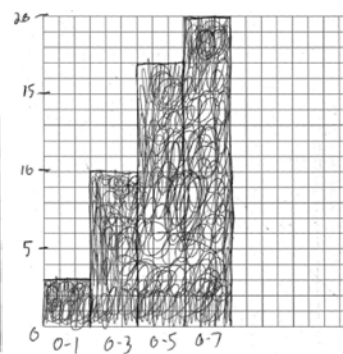
Interval	Frequency	Cumulative Frequency
51-100	7	7
101-150	7	14
151-200	10	24
201-250	6	30



REF: 080134a

3 ANS:

Number of Days Outside			Number of Days Outside	
Interval	Tally	Frequency	Interval	Cumulative Frequency
0-1		3	0-1	3
2-3	 	7	0-3	10
4-5	 	7	0-5	17
6-7		3	0-7	20



REF: 080838ia

4 ANS: 4

REF: 011530ia