key

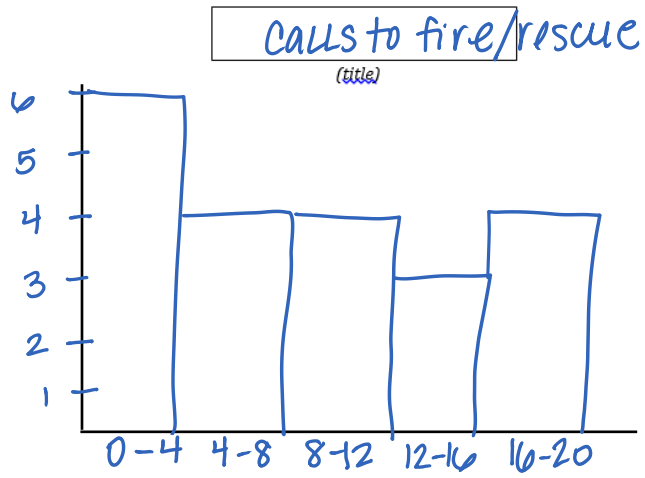
Unit 10 Day 3 HOMEWORK

Histograms and Data Distribution

1. The number of calls per day to a fire and rescue service over the course of three weeks is given below. Use the data to complete the frequency table and histogram. Then describe the distribution of data.

Calls for Service										
5	17	2	12	0	6	3	8	15	1	4
19	16	8	2	11	13	18	3	10	6	

Fire and Rescue Service	
Number of Calls	**Frequency**
0 - 4	6
4 - 8	4
8 - 12	4
12 - 16	3
16 - 20	4



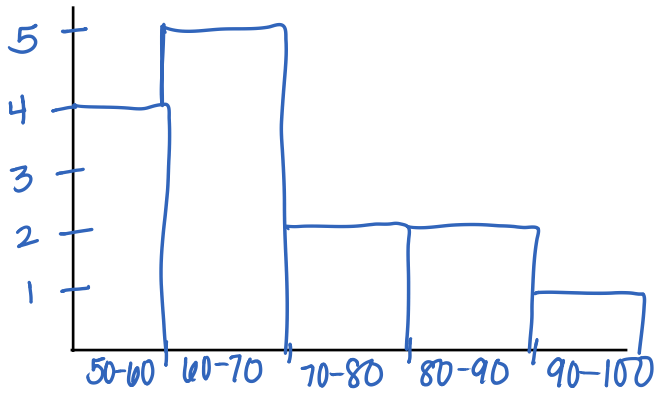
0 1 2 2 3 3 4 5 6 6 8 8 10 11 12 13 15 16 17 18 19

2. Liam and Nick go to a hot dog eating contest. The following data shows how many hot dogs each person ate in 1 hour. Use the data to complete the frequency table and histogram. Then describe the distribution of data.

Hot Dogs Eaten in One Hour														
83	76	90	58	66	44	86	66	61	59	50	53	61	64	73

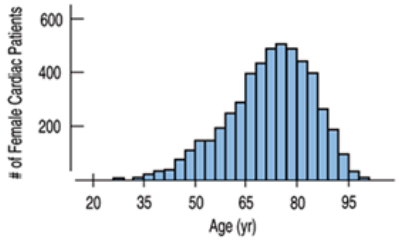
44 50 53 58 59 61 61 64 66 66 73 76 83 86 90

Number of Hot Dogs	Number of People
50 - 60	4
60 - 70	5
70 - 80	2
80 - 90	2
90 -100	1

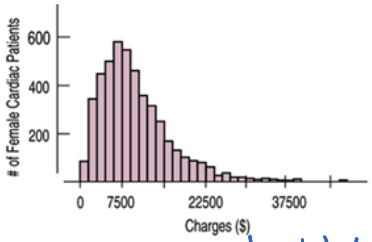


Skewed Right

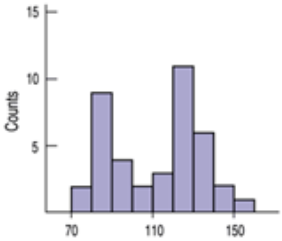
3. Describe the distribution of data of the following:



Skewed left

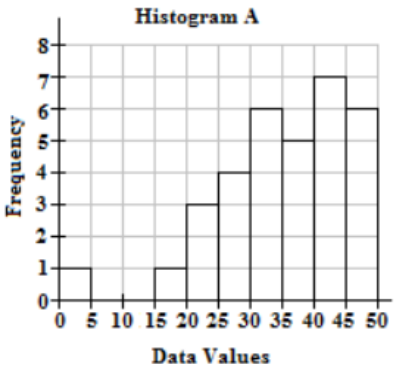


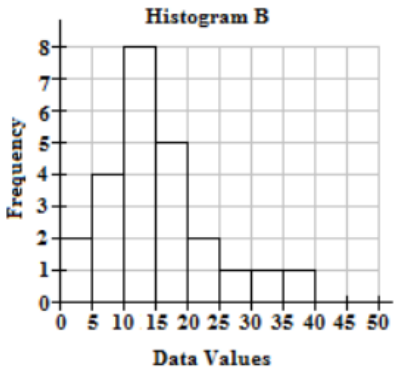
skewed right



bimodal
skewed right

4. Use the histograms shown below to answer a-b.





a) Which distribution collected more data? Explain how you know.

histogramA because skewed left

b) Describe the distribution of Histogram A.

skewed left

c) Describe the distribution of Histogram B.

skewed right