

Terms in 2.1 you should know:

Frequency Distribution Table - table that shows classes (intervals) of data with the number of entries for each class

Frequency - the number of entries or times an even occurs

Class Width - distance between upper limits, midpoints, lower limits found by dividing the range by the number of classes being created

Range - Highest number in data minus the lowest number in the data

Class Limits - each class as a lower limit and an upper limit

Lower Limits - the least number in the class

Upper Limit - the greatest number in the class

Midpoint - the average of the upper class limit and the lower class limit

Relative Frequency - class frequency divided by the sample size

Cumulative frequency - the sum of the frequencies of a particular class plus all the classes before it

Frequency Histogram - A bar graph in which the bars are connected by the boundaries of each class. Can use frequencies or relative frequencies on the vertical axis, on the horizontal axis are the boundaries of each class.

Boundaries - numbers that separate the classes - a half unit before the lower limit and a half unit above the upper limit

Frequency Polygon - a line graph that shows the change in frequencies - uses the midpoint of each class

Ogive - line graph that uses the cumulative frequencies of each class. Starts at 0 on the horizontal axis by using the previous class that is listed in the Frequency Distribution Table

Histogram -

Sep 6-10:03 AM

Make a frequency distribution table with 5 classes given:

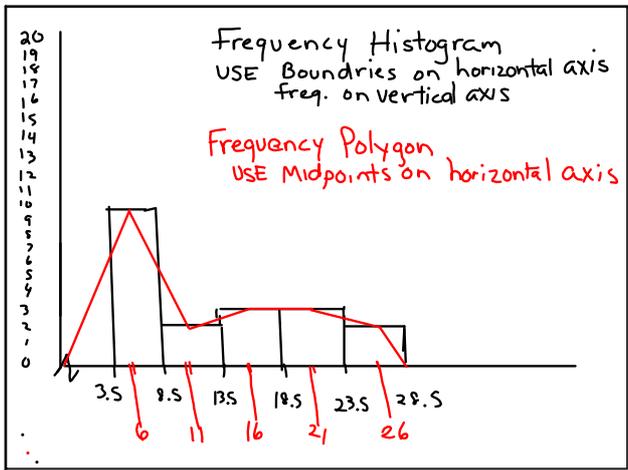
4, 10, 7, 19, 25, 12, 15, 7, 6, 8, 17, 17, 22, 21, 7, 24, 5, 6, 5

class	frequency	midpoint	relative frequency	cumulative frequency	boundaries
< 4	0			0	
4-8	6	6	$\frac{6}{20} = .3$	6	3.5-8.5
9-13	2	11	$\frac{2}{20} = .1$	8	8.5-13.5
14-18	3	16	$\frac{3}{20} = .15$	11	13.5-18.5
19-23	3	21	$\frac{3}{20} = .15$	14	18.5-23.5
24-28	2	26	$\frac{2}{20} = .1$	16	23.5-28.5

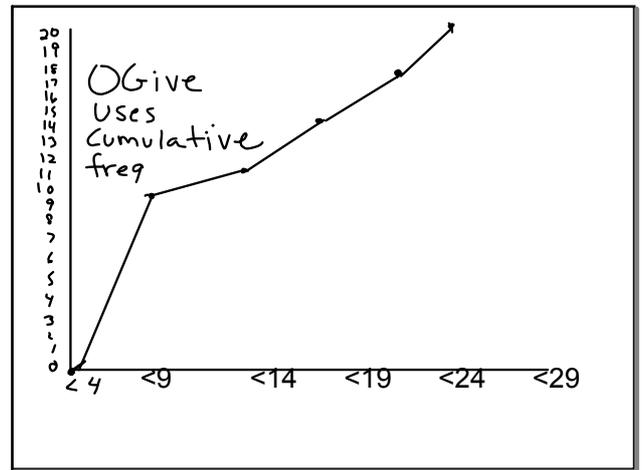
20.

Class	Frequency	Midpoint	Relative frequency	Cumulative frequency
5-9	10	7	0.5	10
10-14	2	12	0.1	12
15-19	4	17	0.2	16
20-24	3	22	0.15	19
25-29	1	27	0.05	20

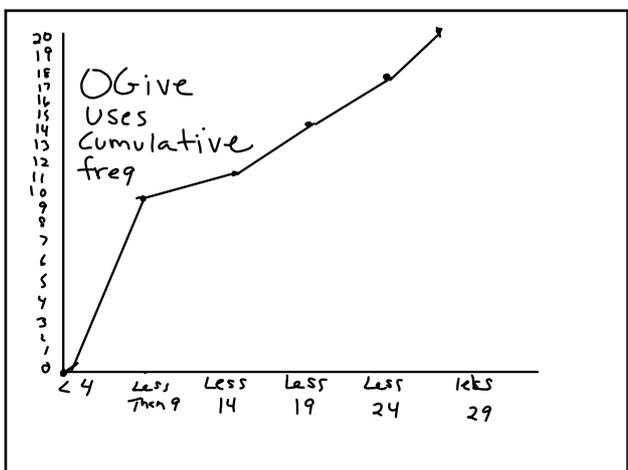
Sep 6-9:48 AM



Sep 7-8:30 AM



Sep 7-8:39 AM



Sep 7-8:39 AM