

**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:

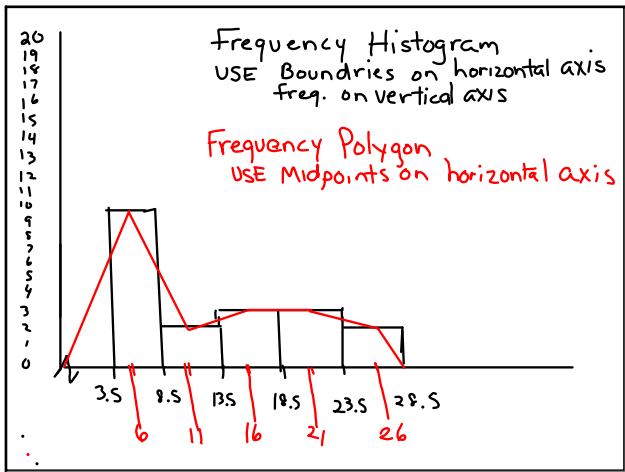
4, 10, 7, 19, 25, 12, 15, 7, 6, 8, 17, 17, 22, 21, 7, 24, 5, 6, 5

class	frequency	midpoint	relative frequency	cumulative frequency	boundaries
< 4	0			0	
4-8	6	6	0.5	6	3.5-8.5
9-13	2	11	0.1	8	8.5-13.5
14-18	3	16	0.15	11	13.5-18.5
19-23	3	21	0.15	14	18.5-23.5
24-28	2	26	0.1	16	23.5-28.5

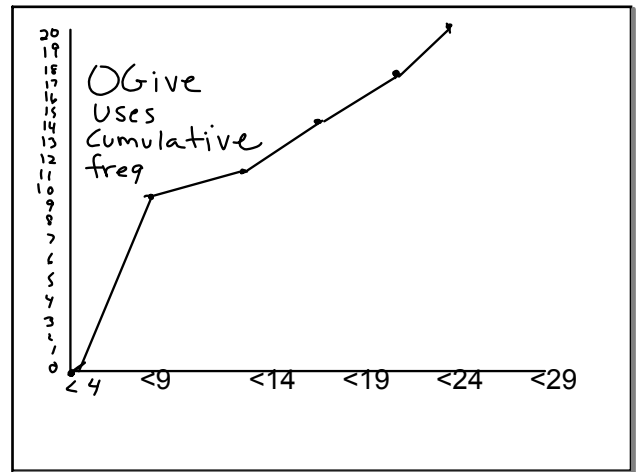
20.

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

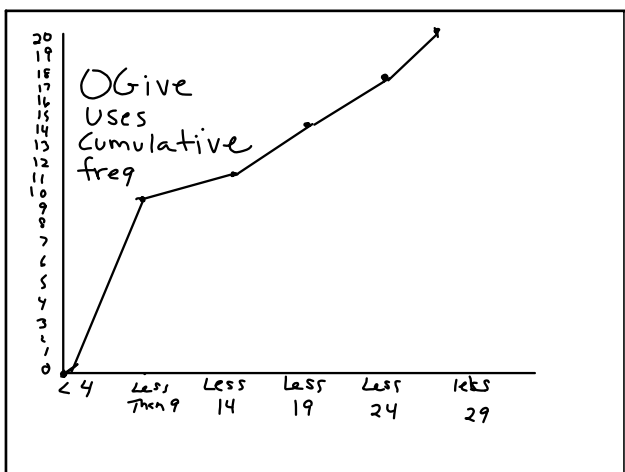
Sep 6-9:48 AM



Sep 7-8:30 AM



Sep 7-8:39 AM



Sep 7-8:39 AM