

## Class Data Analysis

The table below shows the results of a high school math class.

Student	Grade	Absences	Lates
1	52	56	7
2	39	32	13
3	70	3	4
4	68	14	5
5	50	8	27
6	83	8	2
7	83	2	0
8	86	7	2
9	76	4	1
10	90	3	0
11	61	15	4
12	87	9	10
13	74	8	3
14	80	1	2
15	87	14	0
16	35	30	16
17	56	21	3
18	69	18	6
19	51	6	5

	Grade	Absences	Lates
Mean			
Median	One-variable		
Mode			
Minimum	Data		
Maximum			
Range			

- Complete the table above, providing a basic statistical summary of the data.
- Identify the variable(s).

- Grade (%)  
 - # of Absences  
 - # of lates

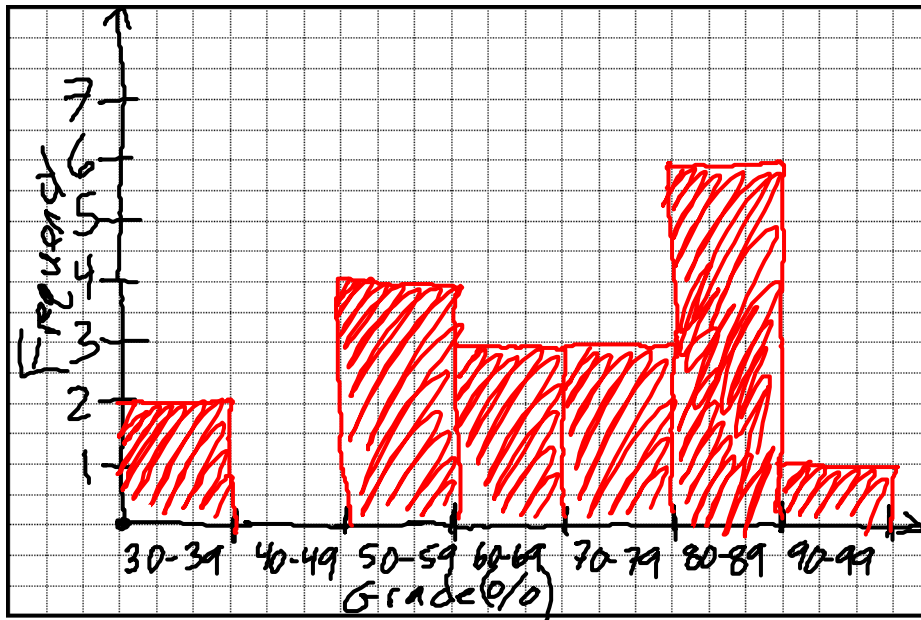
- What type(s) of graph(s) would be appropriate to display the Grade data only? Why?

Histogram. We can break grades into groups and graph the frequency of each range/interval.

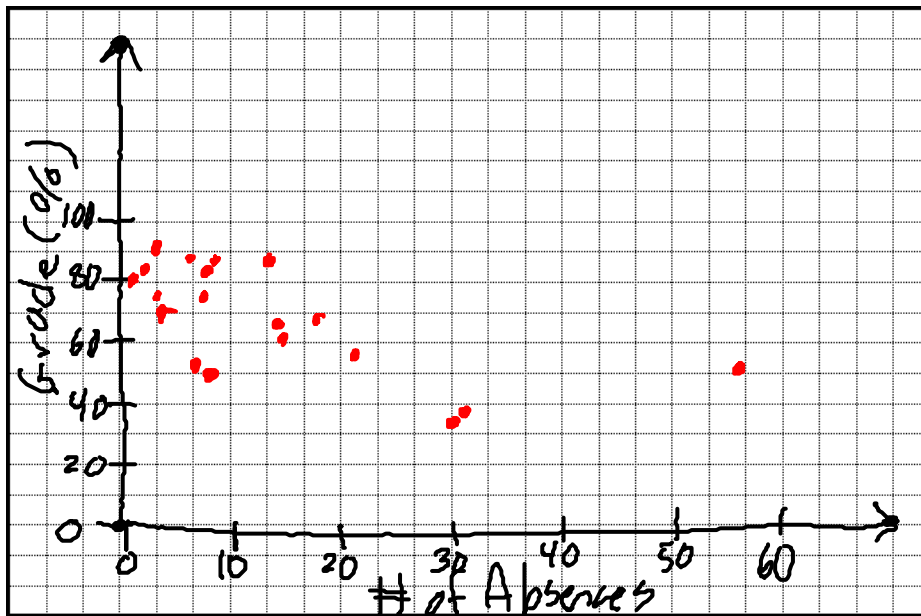
- What type(s) of graph(s) would be appropriate to display the relationship between Grade and Absences? Why?

Scatter Plot. We are looking for a relationship/trend between two variables.

5. Draw an appropriate graph to display the Grade data.



6. Draw an appropriate graph to display the relationship between Grade and Absences.



7. Pose, and answer, a question that would require one-variable data analysis.

8. Pose, and answer, a question that would require two-variable data analysis.

What is the relationship between number of absences and grade? As # of absences increases, your grade decreases.