**Creating Frequency Polygons**

* Steps:

1) Use or create a frequency table.

2) Add a column to include the **midpoints** of the intervals OR use the given numbers

-to calculate the midpoints **add the numbers in the interval and divide by 2**

3) Draw an x and y axis

4) Label the x-axis with the interval numbers and the y-axis with the frequency numbers

5) Plot the points (midpoint, frequency)

6) Connect the points with straight lines and attach the first and last points to the x-axis.

* Video Link [http://www.youtube.com/watch?v=gy4dgzxmT4A&feature=related](https://owa.ecsd.net/owa/redir.aspx?C=6bb97e0e33d0431babab0dc020fafc29&URL=http%3a%2f%2fwww.youtube.com%2fwatch%3fv%3dgy4dgzxmT4A%26feature%3drelated)
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On this frequency table, each hour will make a frequency polygon. We will put the first one on its own grid, then graph all four on the same grid.

What is the frequency? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What are the intervals? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Midpoints: On this table, the intervals were written as single numbers.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Interval (# of Errors) | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 |
| Midpoints |  |  |  |  |  |  |  |  |