

STUDENT NAME: _____

GRAPHING IN EXCEL

Enter the following data set into an Excel worksheet and create 3 histograms to represent it, each with a different bin range. Afterwards, calculate the mean, median, and standard deviation as well as drawing a picture of the histogram that you think is the most useful. To graph a histogram in Excel:

1. Open a worksheet in Excel
2. Ensure that you have the Analysis ToolPak Add-in installed, if not:
 - a. Open the *File* menu
 - b. Select *Options*
 - c. Select *Add-ins*
 - d. In the *Manage* list, select *Excel Add-ins*, and click *Go*
 - e. Select *Analysis ToolPak* and click *OK*
3. Enter your data in one column and your Bin values in another
4. Under the *Data* tab, click *Data Analysis*
5. Select *Histogram*
6. Click the *Input Range* icon, drag a box around your data, and press *Enter*
7. Click the *Bin Range* icon, drag a box around your Bins, and press *Enter*
8. Click *OK*
9. A new worksheet will be created with a frequency table of your data. Drag a box around the entire table and under the *Insert* tab select a *2D Column Chart*

Mean:

Median:

Standard Deviation:

Histogram:

FIRST LADY	AGE AT DEATH		FIRST LADY	AGE AT DEATH
1. Martha Dandridge	70		30. Grace Anna Goodhue	78
2. Abigail Smith	73		31. Lou Henry	69
3. Martha Jefferson	64		32. Anna Eleanor Roosevelt	78
4. Dolley Payne	81		33. Elizabeth Virginia Wallace	97
5. Elizabeth Kortright	62		34. Mamie Geneva Doud	82
6. Louisa Catherine Johnson	77		35. Jacqueline Lee Bouvier	64
7. Rachel Donelson	61		36. Claudia Alta Taylor	94
8. Angelica Van Buren	59		37. Thelma Catherine Ryan	81
9. Anna Tuthill Symmes	88		38. Elizabeth Ann Bloomer	93
10. Letitia Christian	51		39. Nancy Davis	94
11. Julia Gardiner	69			
12. Sarah Childress	87			
13. Margaret Mackall Smith	63			
14. Abigail Powers	55			
15. Jane Means Appleton	57			
16. Harriet Rebecca Lane	73			
17. Mary Ann Todd	63			
18. Eliza McCardle	65			
19. Julia Boggs Dent	76			
20. Lucy Ware Webb	57			
21. Lucretia Rudolph	85			
22. Frances Clara Folsom	83			
23. Caroline Lavina Scott	60			
24. Ida Saxton	59			
25. Edith Kermit Carow	87			
26. Helen Louise Herron	81			
27. Ellen Louise Axson	54			
28. Edith Bolling	89			
29. Florence Mabel Kling	64			