

Making graphs using Excel 2007

Behavior: **Hitting**

10-minute sessions

Baseline

1	80%
2	78%
3	30%
4	85%
5	65%

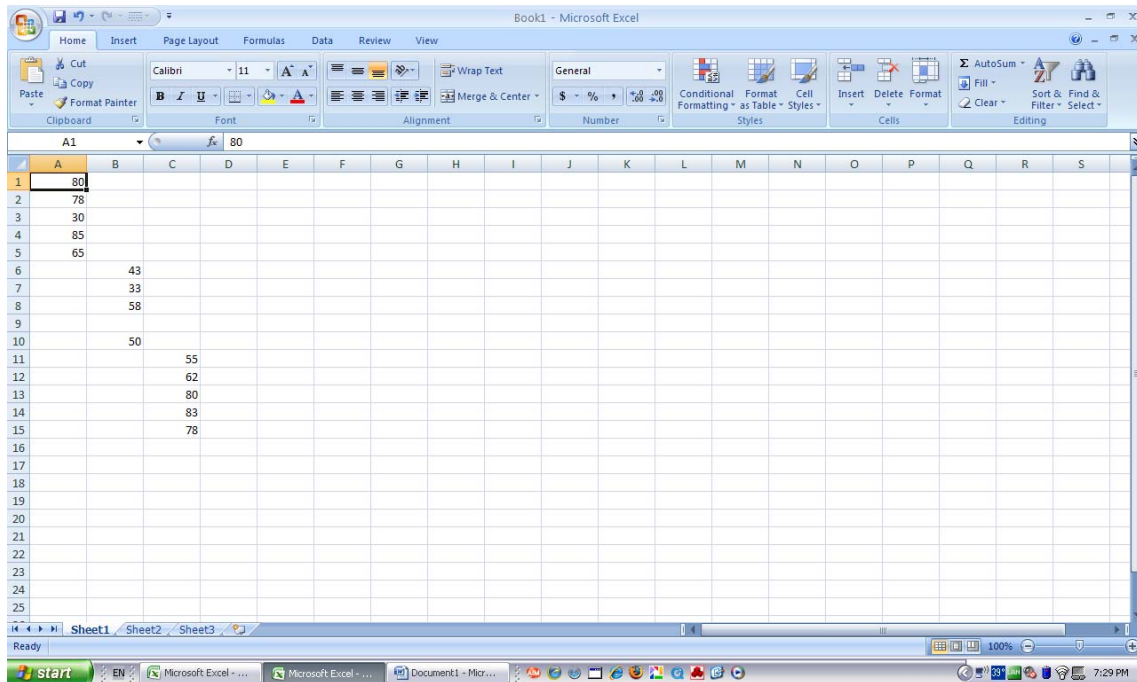
Treatment

6	43%
7	33%
8	58%
9	X
10	50%

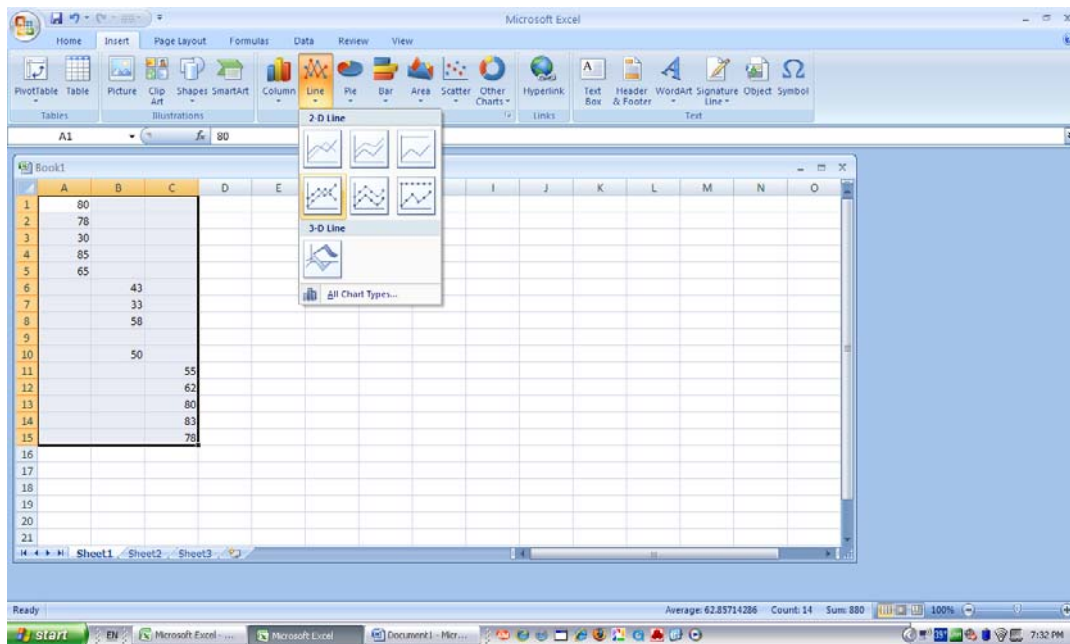
Reverse (back to baseline)

11	55%
12	62%
13	80%
14	83%
15	78%

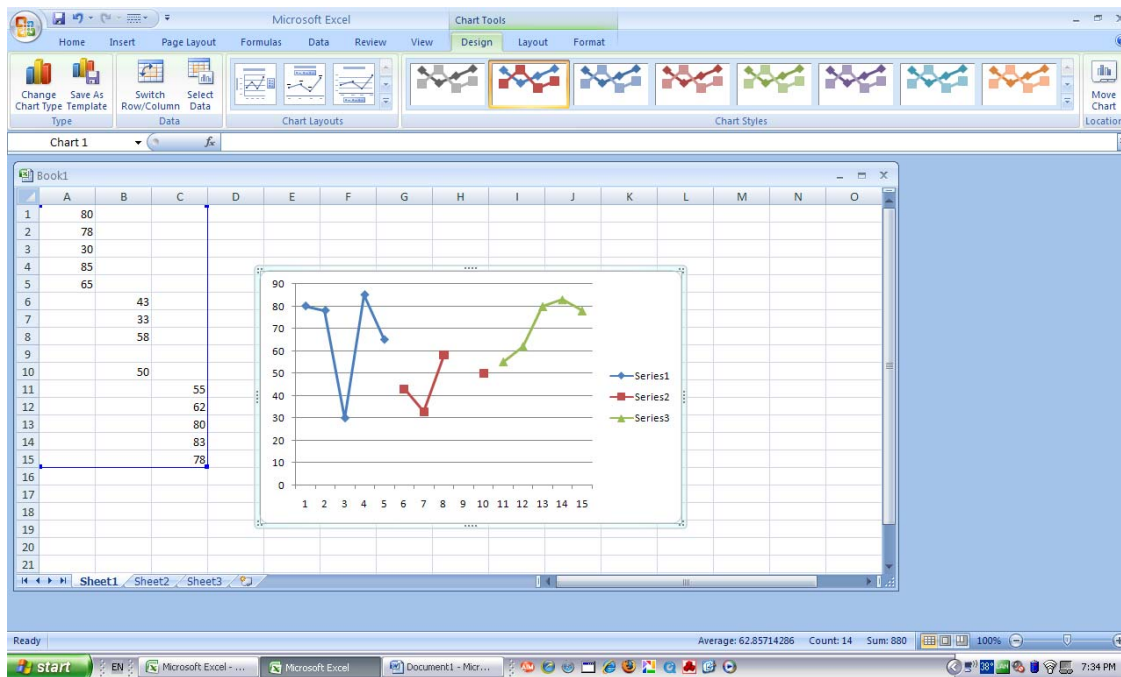
Type in the data as you see below.



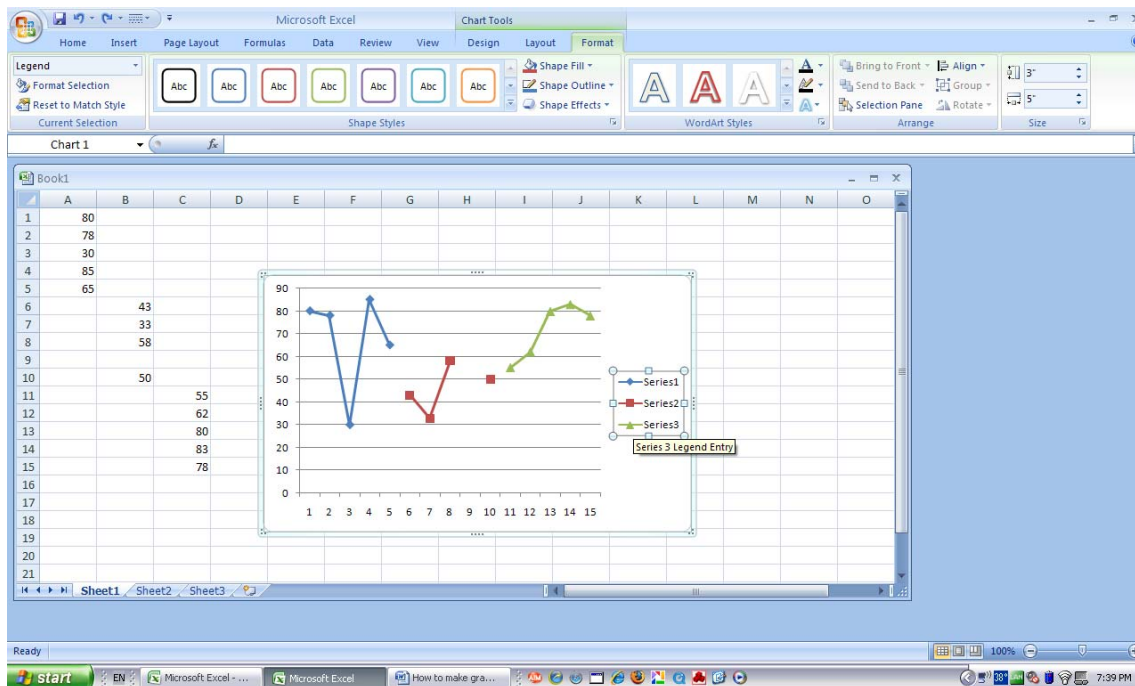
Select the data to be graphed. Then go to **Insert**, select **Line** and choose the graph as you see below.



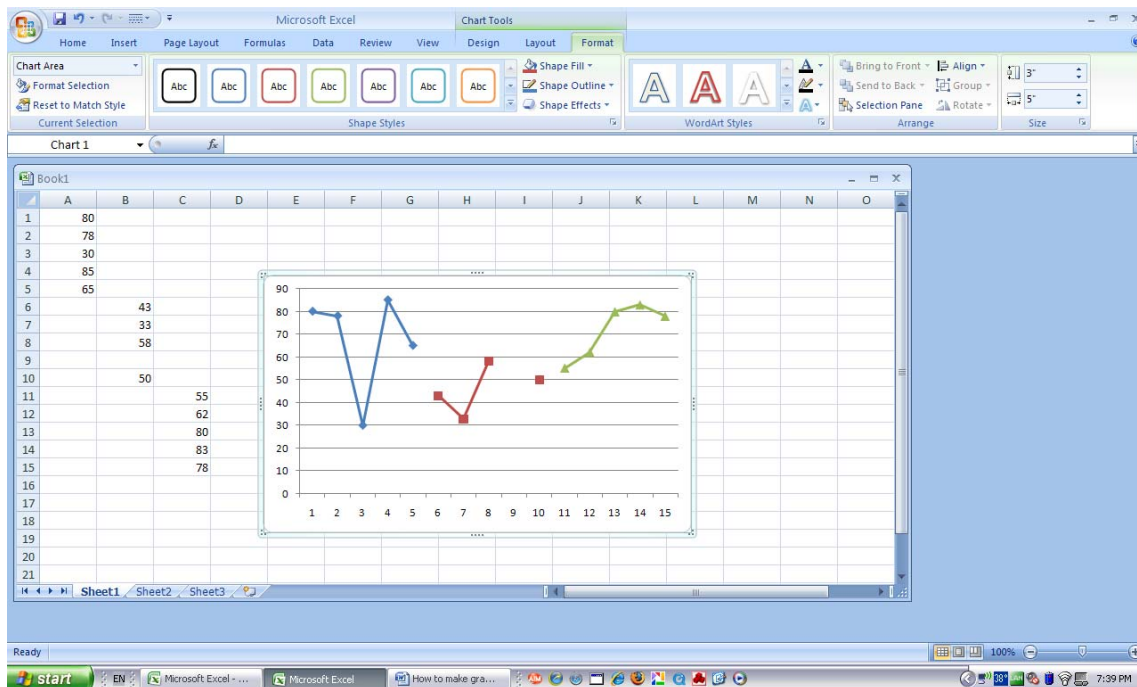
Now you should get this graph:



Select the legend and delete it.

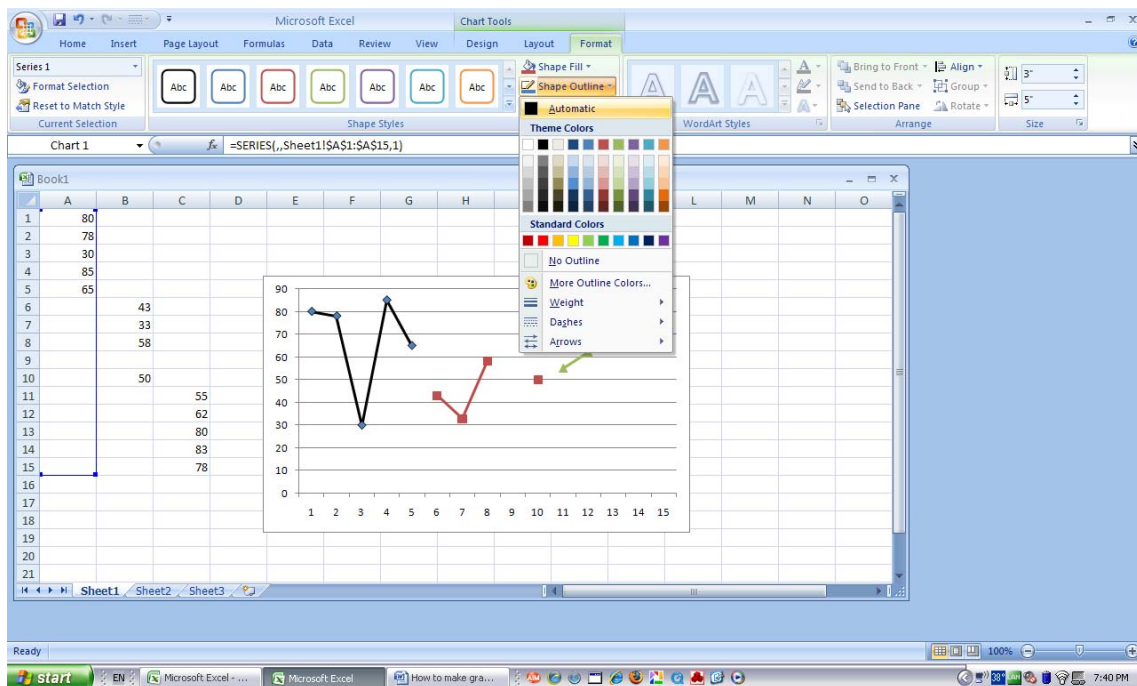


Now your graph should look like this:

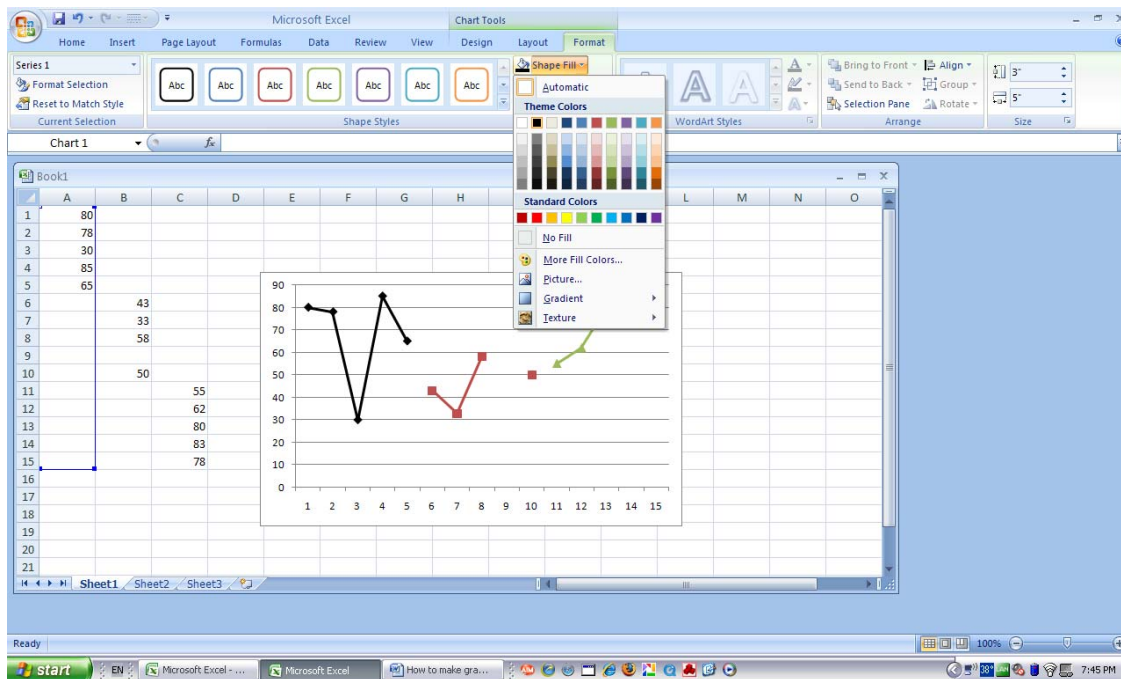


Select the baseline series (blue) by clicking on one of the blue diamonds once.

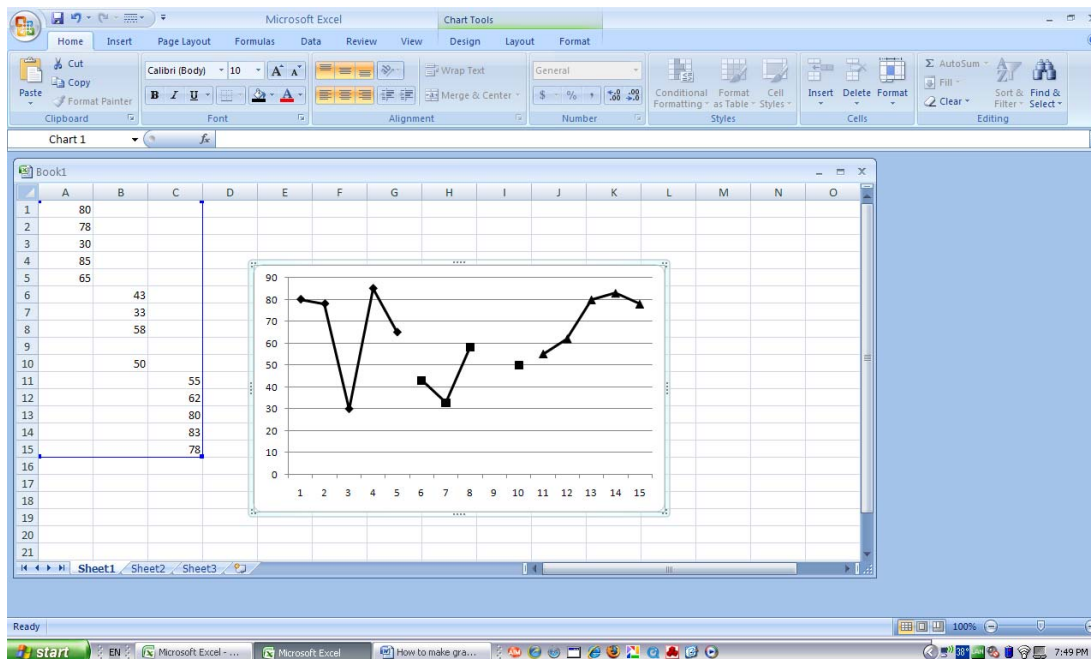
Then go to **Format** and select **Shape Outline** to change the color to **black**.



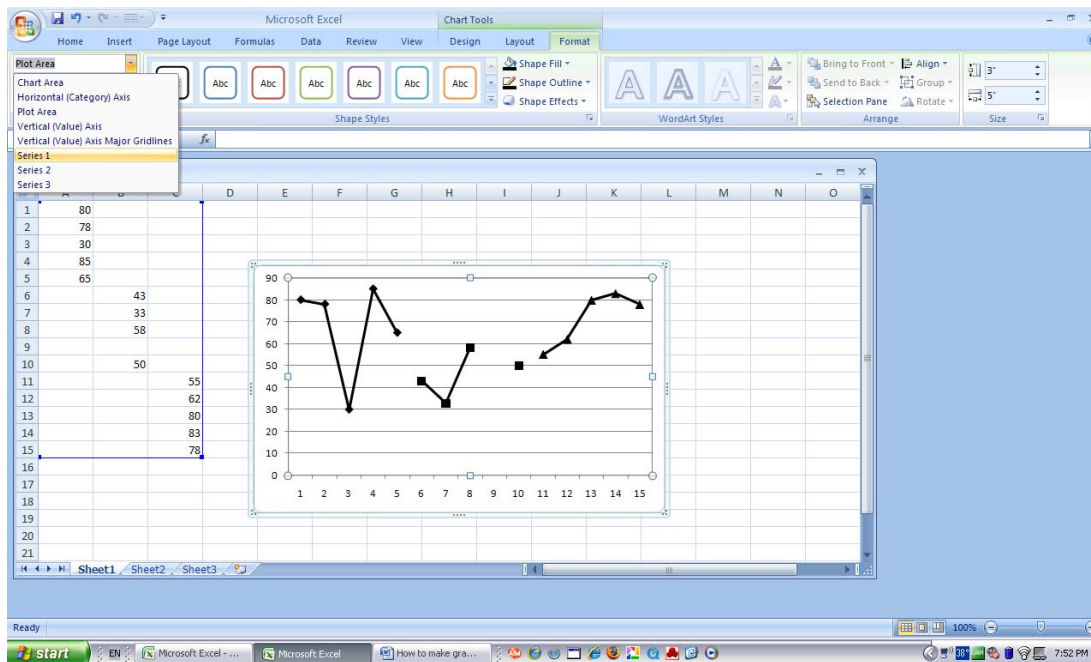
Then select **Shape Fill** to make the diamonds black.



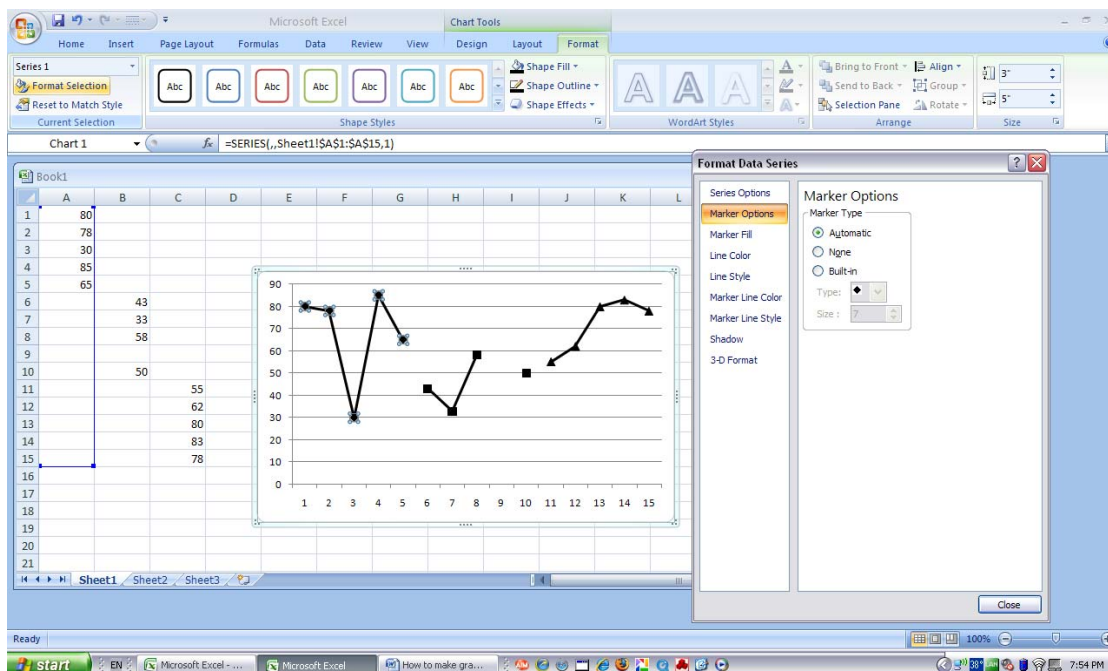
Repeat the same procedure to make all the series black.



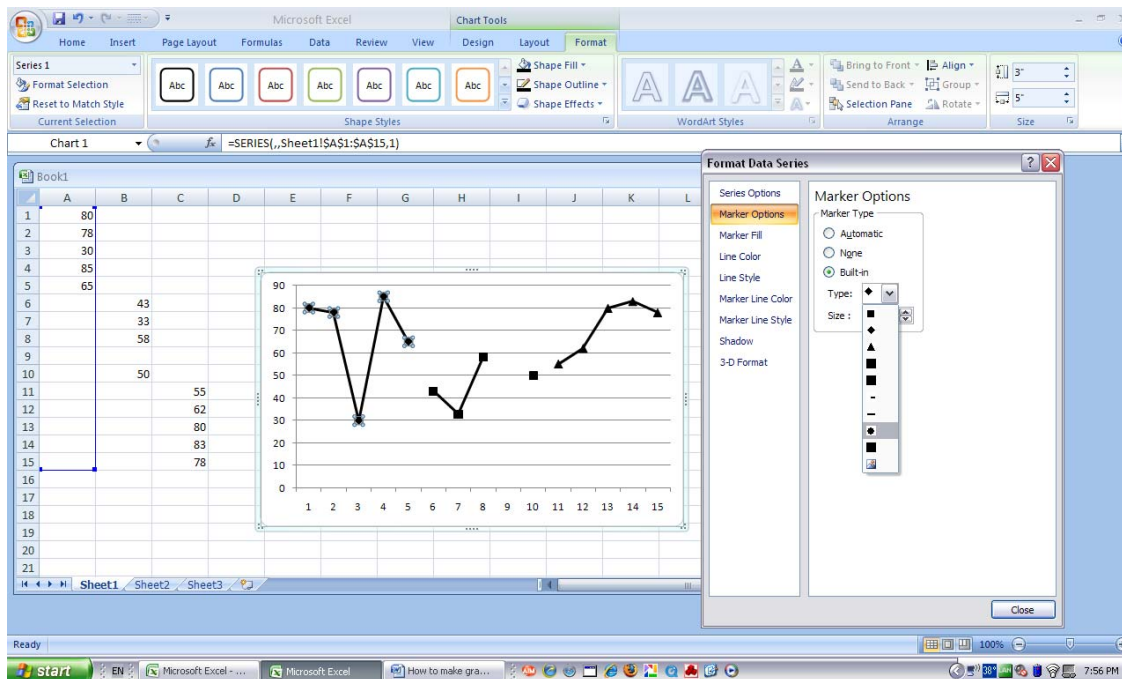
Now go to **Format** and to the left where it says **Plot Area**, select **Series 1**



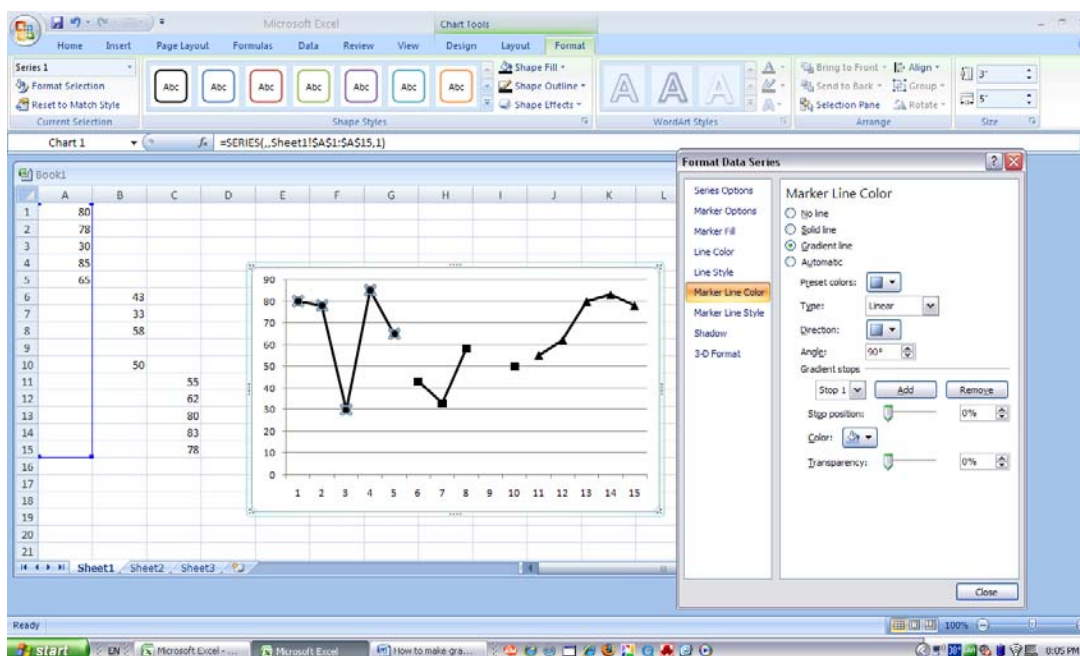
Then go to **Format selection** and click on it until the following window appears



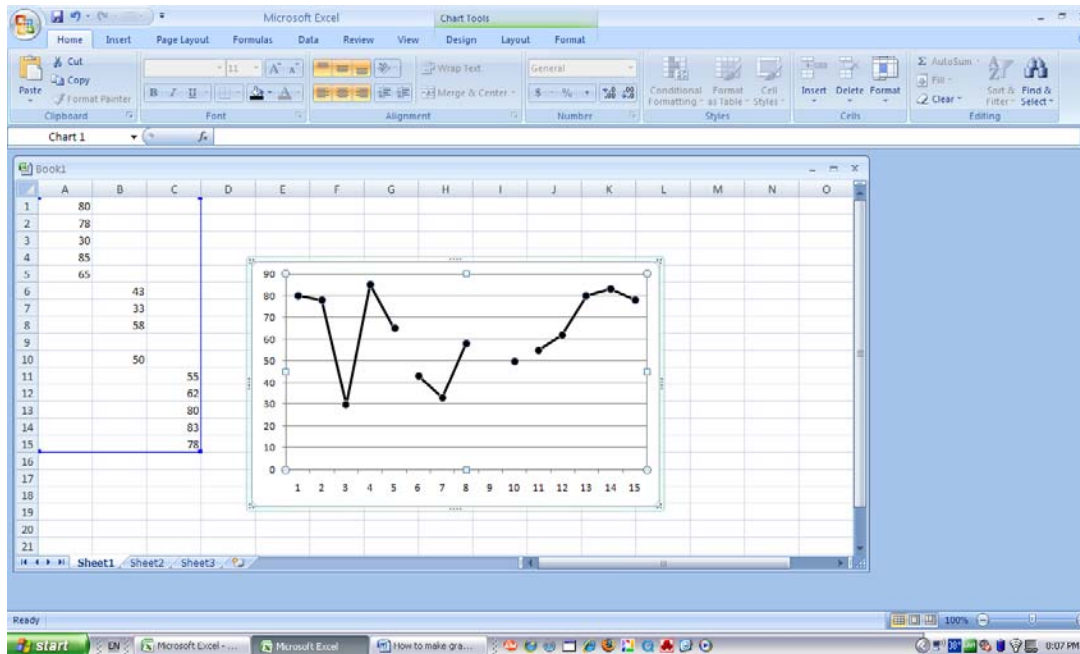
Select **Marker Options**, then select **Built-in** and choose the circle.



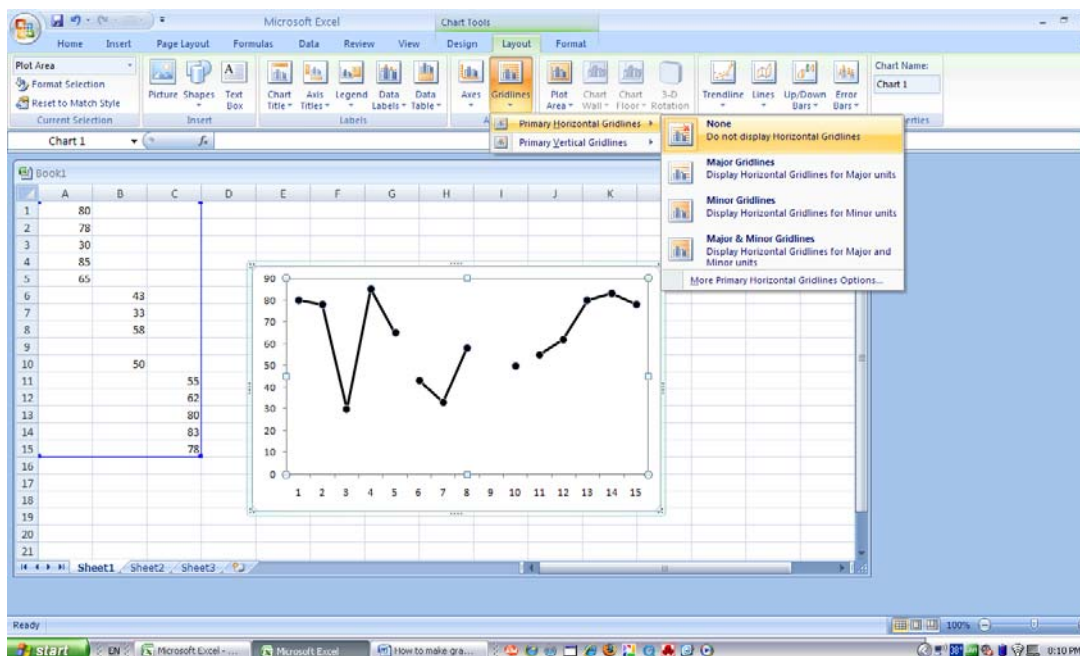
Then select **Marker Line Color** and select **Gradient line**. Make sure to select the color **white**.



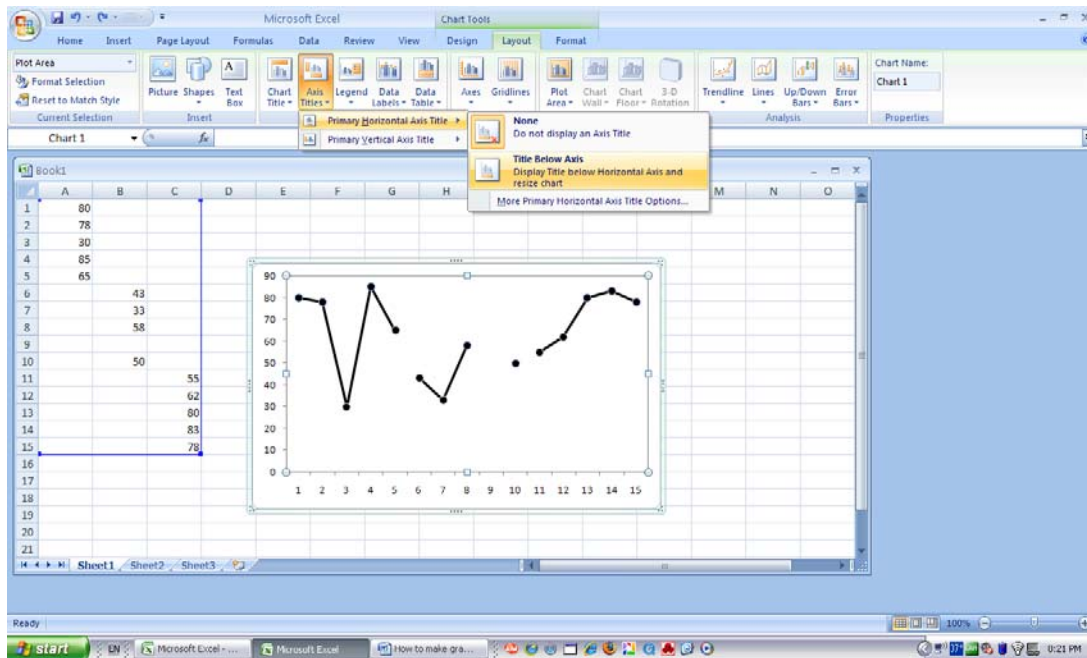
Repeat the same steps with all the series. Now your graph should look like this:



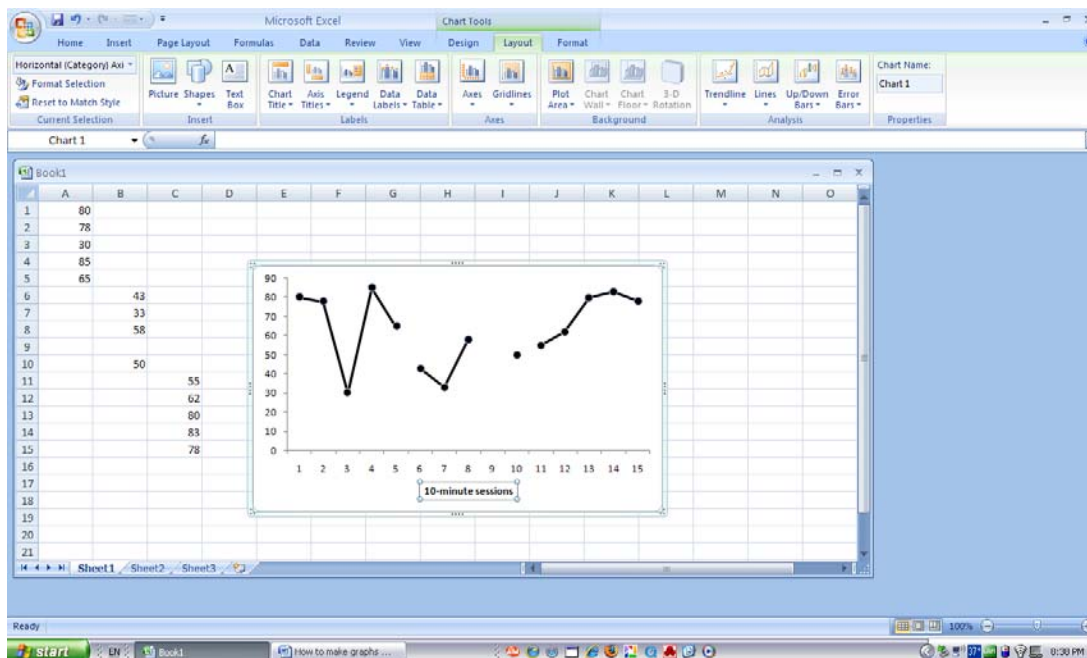
Now we need to eliminate the gridlines from our graph. First select **Layout**, second select **Gridlines**, then select **Primary Horizontal Gridlines** and select **None**.



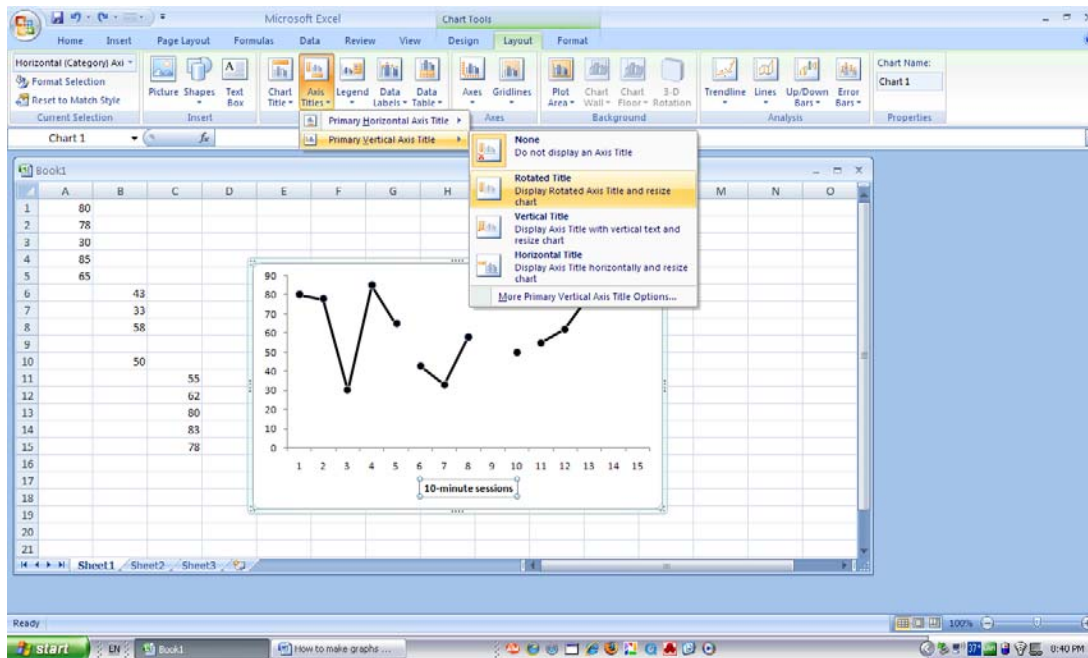
We can now add the Axis Titles to the graph. We will begin with the x-axis. First select **Layout**, then select **Axis Titles**, select **Primary Horizontal Axis Title** and choose **Title Below Axis**.



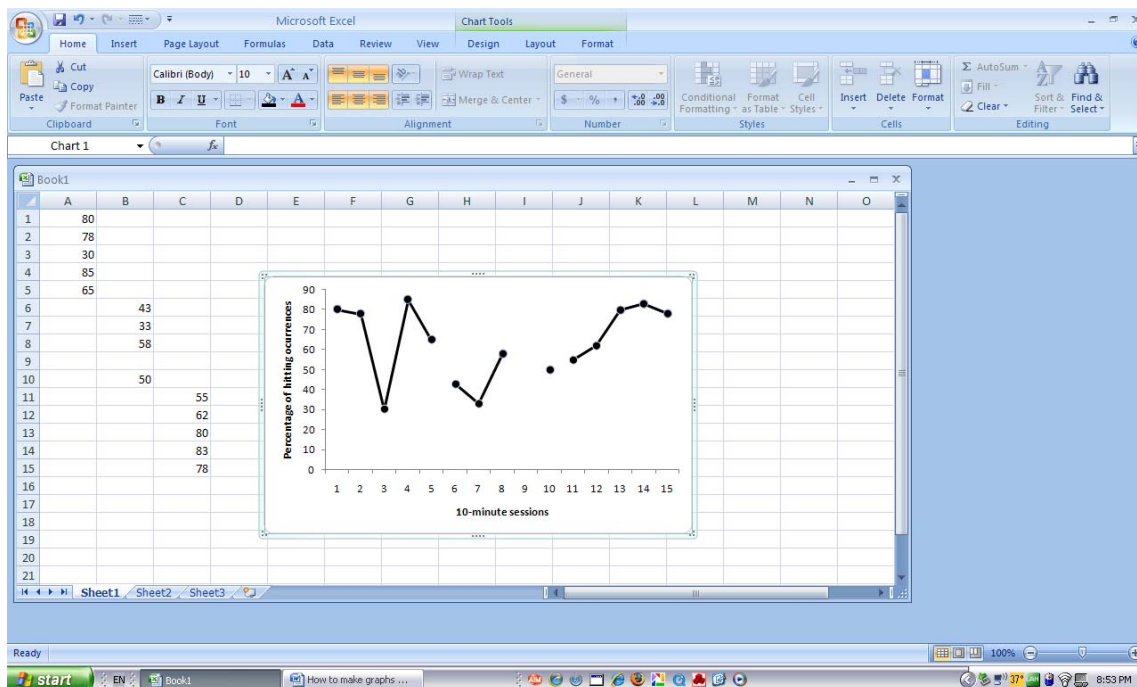
Inside the box, type the following: **10-minute sessions**



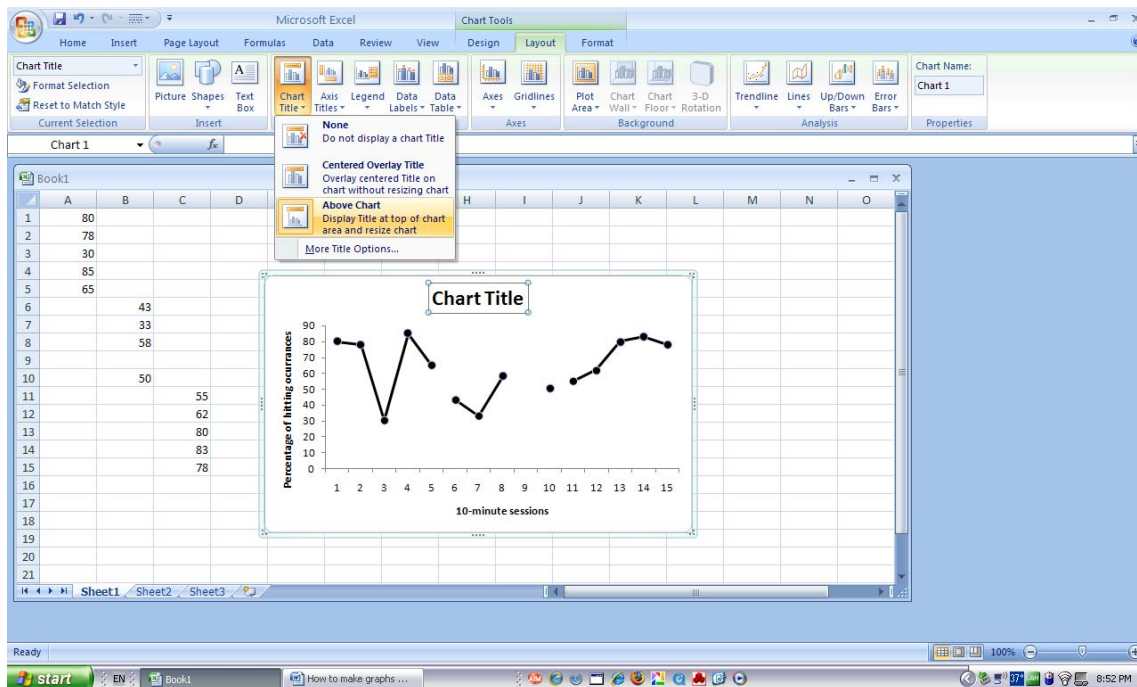
Now we are ready to label the y-axis. First select **Layout**, second select **Axis Titles**, and select **Primary Vertical Axis Title**, and then choose **Rotated Title**.



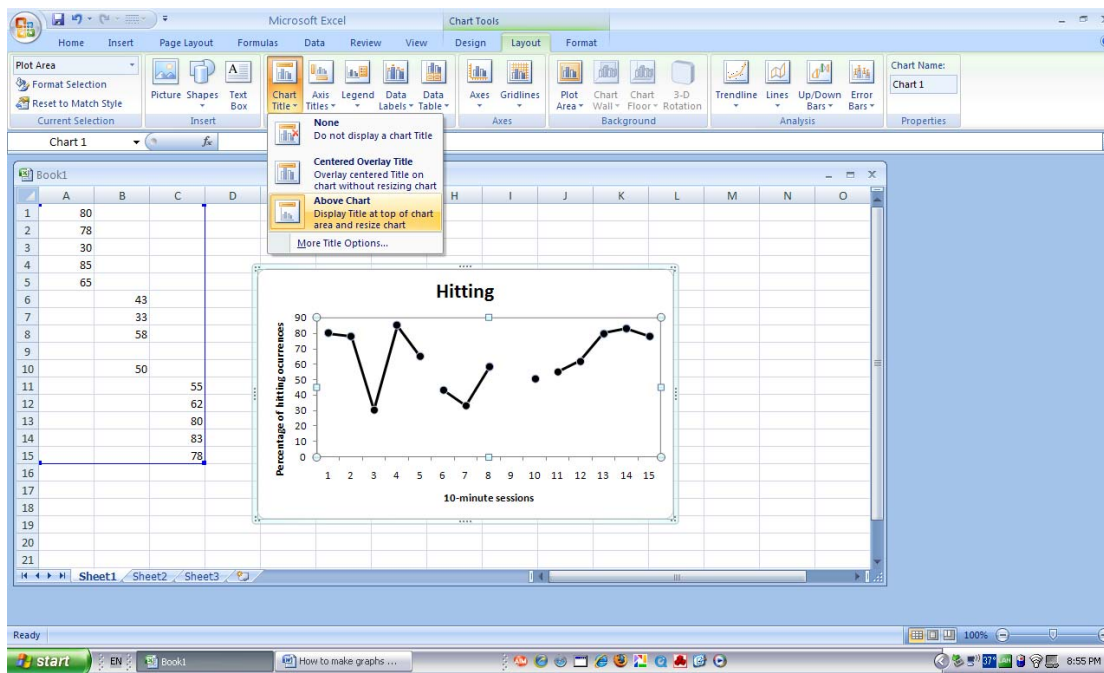
Inside the box, type the following: **Percentage of hitting occurrences**



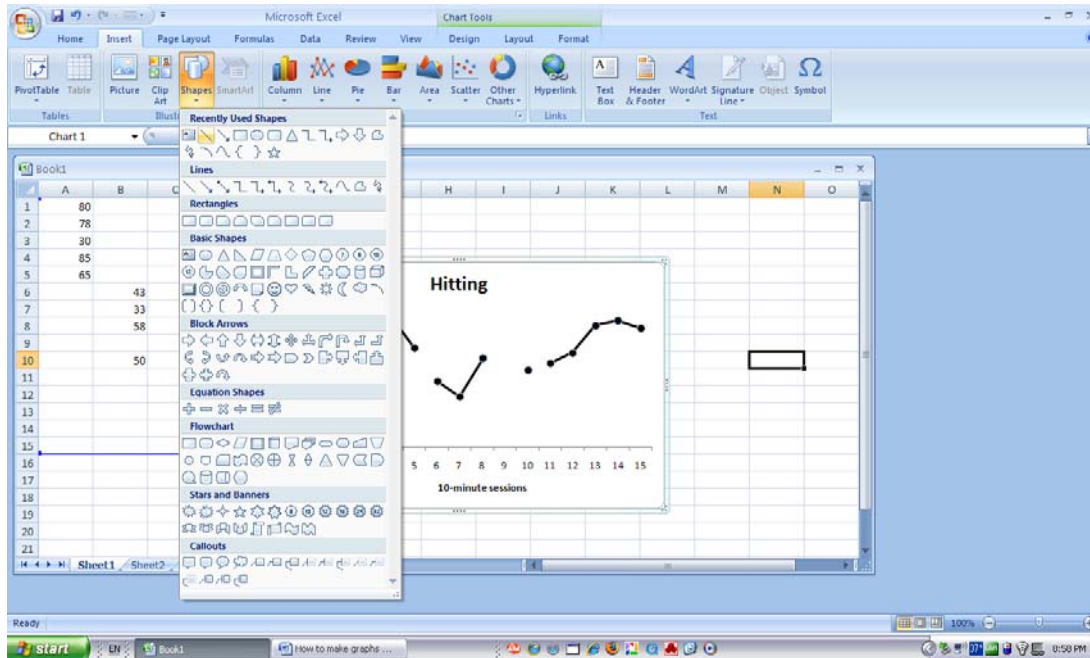
Now we need a title. Go to **Layout** and select **Chart Title**. Select **Above Chart**.



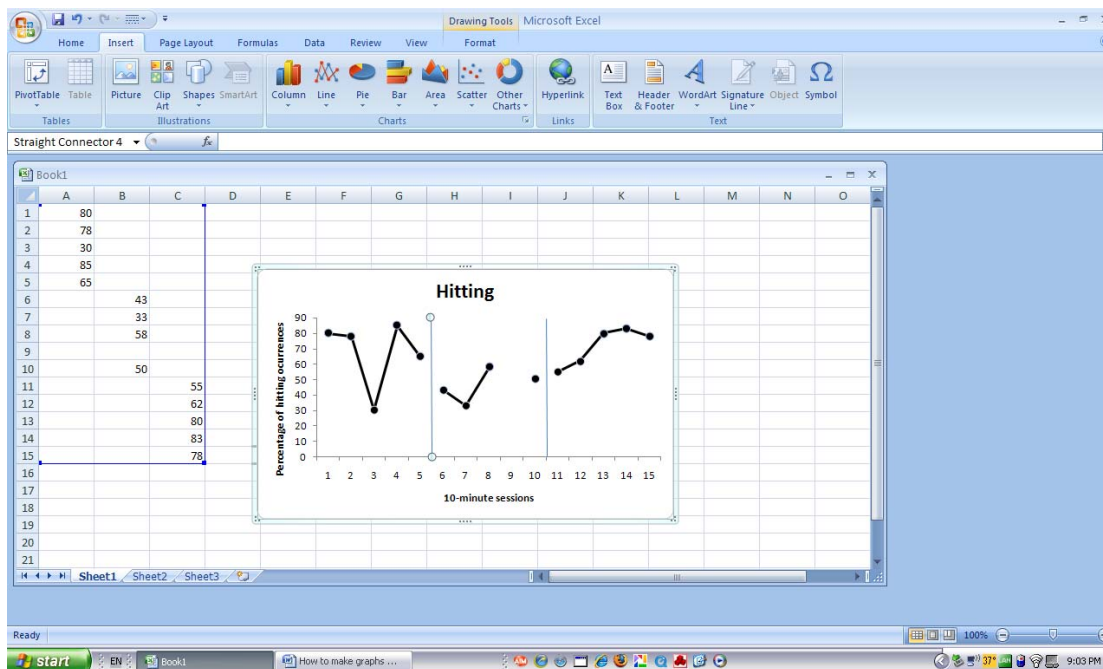
Inside the box type: **Hitting**



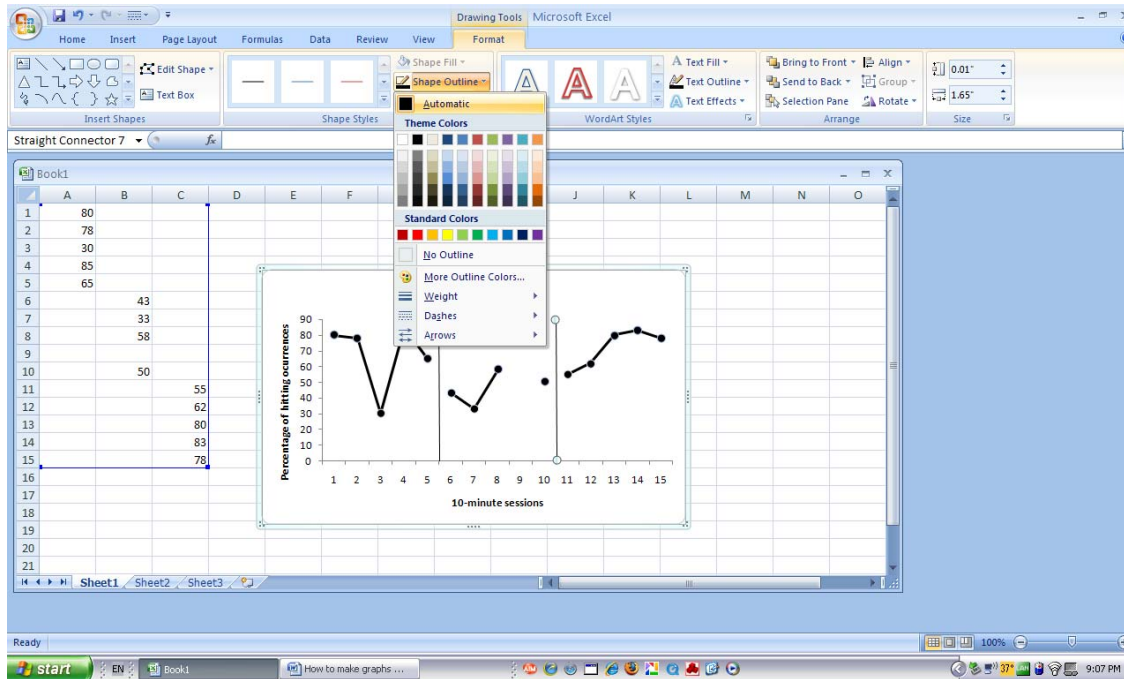
Now we need to make the Condition Change Lines. Go to **Insert** and select **Shapes**. Then select the line.



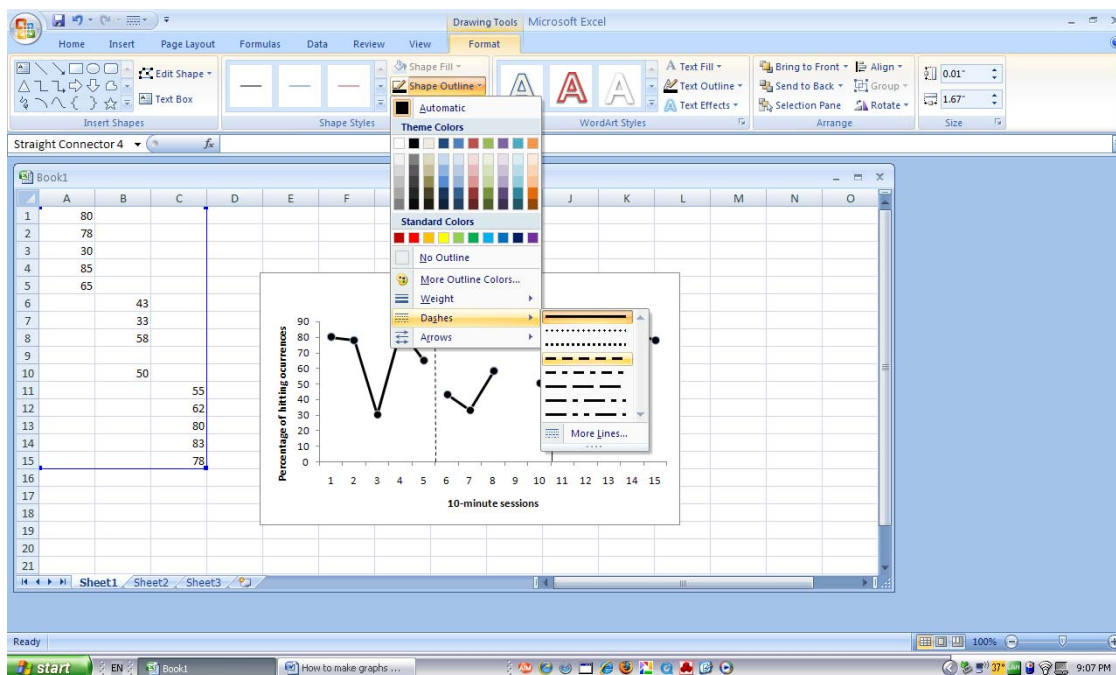
Make two condition change lines:



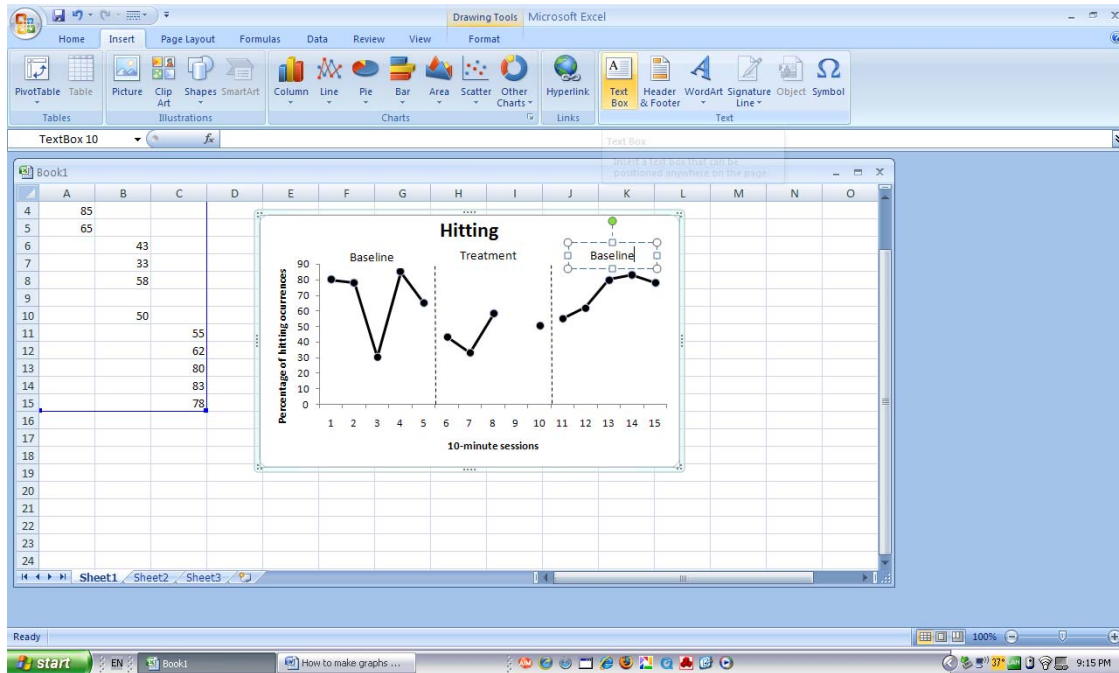
Now select one of the lines and go to **Format**, then select **Shape outline** and make them **black**.



And make them dashed by going to **Format**, selecting **Dashes** and selecting the fourth one.



Now we need the condition labels. Go to **Insert**, select **Text Box** and make three boxes, one per condition. Label the first one Baseline, the second Treatment and the third Baseline.



Finally, to eliminate the border around your graph, go to **Format**, select **Shape Outline** and make it **white**. Now your graph is done!

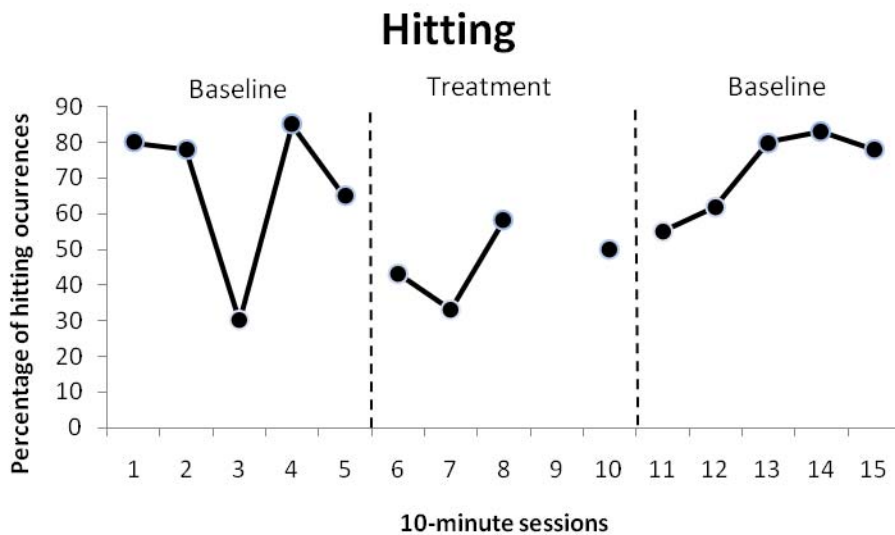


Figure 1. Sample ABA reversal graph showing percentage of hits over 10 minute sessions.