TOPIC: HISTOGRAMS WITH GRAPHING CALCULATOR

How to Create Histograms – TI-84 Calculator

◆ Follow the steps below to quickly create a histogram on a graphing calculator.

EXAMPLE Use a graphing calculator to create a histogram of the following data. Use a class width of 15. Is the distribution normal, skewed, uniform, or none of these?

Time spent studying (mins) for exam									
49	25	55	115	40	5	72	9	68	28
45	57	63	53	33	42	37	12	95	21

(A) Normal **(B)** Skewed Right **(C)** Skewed Left **(D)** Uniform **(E)** None

HOW TO: Create Histograms on TI-84

1) Input data as list L_1

a) STAT, Edit... , then type each # ENTER

2) Graph the default histogram

a) Open STAT PLOT with 2ND, Y=

b) Select ON, bar chart, set Xlist to L_1

c) ZOOM, ZoomStat (or 9), then GRAPH

d) TRACE, < & > show class boundaries & freq.

3) Adjust class boundaries & class widths in WINDOW:

a) Set **Xscl** to desired class width

b) Set **Xmin** / **Xmax** to # at or near data min / max

c) *(Optional)* adjust **Ymin/Ymax/Yscl** values

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EXAMPLE

A retail company is analyzing its monthly revenue (in $1000s) over the past year. The following data represents the monthly revenue for 12 months. Use a graphing calculator to create a histogram using a class width of 15. Determine whether the distribution is normal, skewed, uniform, or none of these.

Revenue (in $1000s)											
129	142	117	154	126	96	139	182	124	137	166	149

(A) Normal **(B)** Skewed Right **(C)** Skewed Left

(D) Uniform **(E)** None

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