

Algebra P4
Homework 56

Practice + Graphing Calculator

1. Make stem-and-leaf plots for this data set. Then write a few sentences describing the center, spread, and shape of this data.

These are the airborne times for a United flight from SF to LA, in minutes.

54 47 48 53 60 58 54 54 50 48 61 49

2. Make a histogram for this data set. Then write a few sentences describing the center, spread and shape of this data.

These are the nitrate concentrations in a particular brand of hotdog in mg:

174 179 225 220 216 236 244 192 200 162 224 201 221
239 220 260 245 210 194 188 180 230 250 240 230 220
214 233 251 266 178 188 198 208 215 218 225 228 232
238 240 245 251 255

(Note: I recommend class widths of size 10).

How to make a HISTOGRAM on the graphing calculator!

1. Type all the data into L1.
2. Go to STATPLOT. Choose plot #1.
3. The four settings should be: On, Histogram, Xlist:L1, Freq: 1
4. Then set the WINDOW Xmin and Xmax to match your data.
5. Then set the Xscl to be the width of your bars!
6. Ymin is 0, Ymax is the biggest frequency of any class.
7. Then GRAPH.

Use your calculator to make a histogram for this data set. Then write a few sentences describing the center, spread and shape.

These are the nitrate concentrations in a particular brand of hotdog in mg:

174	179	225	220	216	236	244	192	200	162	224	201	221
239	220	260	245	210	194	188	180	230	250	240	230	220
214	233	251	266	178	188	198	208	215	218	225	228	232
238	240	245	251	255								

Sketch the histogram for each of these different class widths:

Class width 5

Class width 10

Class width 20

Class width 30

How does each different class width change what you might say about the data?