

Notes for Topic 7 (part II)

Activity 7-4:

The population of the U.S. grew by 13.2% between 1990 and 2000. The following table reports the percentage growth in population for each of the fifty states during the 1990's. States are classified by whether they are east or west of the Mississippi River.

Western state	%	Western state	%	Eastern state	%	Eastern state	%
Alaska	14	Montana	12	Alabama	10	New Hampshire	11
Arizona	40	Nebraska	8	Connecticut	3	New Jersey	8
Arkansas	13	Nevada	66	Delaware	17	New York	5
California	13	New Mexico	20	Florida	23	North Carolina	21
Colorado	30	North Dakota	1	Georgia	26	Ohio	4
Hawaii	9	Oklahoma	9	Illinois	8	Pennsylvania	3
Idaho	28	Oregon	20	Indiana	9	Rhode Island	4
Iowa	5	South Dakota	8	Kentucky	9	South Carolina	15
Kansas	8	Texas	22	Maine	3	Tennessee	16
Louisiana	5	Utah	29	Maryland	10	Vermont	8
Minnesota	12	Washington	21	Massachusetts	5	Virginia	14
Missouri	9	Wyoming	8	Michigan	6	West Virginia	1
				Mississippi	10	Wisconsin	9

Create a side-by-side stemplot of the percentages

Western States		Eastern States
9 9 9 8 8 8 8 5 5 1	0	1 3 3 3 4 4 5 5 6 8 8 8 9 9 9
4 3 3 2 2	1	0 0 0 1 4 5 6 7
9 8 2 1 0 0	2	1 3 6
0	3	
0	4	
	5	
6	6	

Based on the side-by-side stemplot, compare and contrast the distributions of population growth between eastern and western states. Remember your SOCS!

Shape → west - Strongly Skewed right
east - Slightly Skewed right

Outliers → west at 66%

Center → west about 20's
east upper singles / lower 10's

Spread → west - very spread out (inconsistent)
east - clustered (consistent)

Histogram: graphical display similar to a bar graph but made for quantitative data. The bars do not have spaces between them and displays large datasets.

Use the following data to fill out the given table and graph the histogram.

President	Age at Inauguration
T. Roosevelt	42
Taft	51
Wilson	56
Harding	55
Coolidge	51
Hoover	54
F. Roosevelt	51
Truman	60
Eisenhower	62
Kennedy	43
Johnson	55
Nixon	56
Ford	61
Carter	52
Reagan	69
Bush	64
Clinton	46

Age Range	Number of Presidents
40 - 44	2
45 - 49	1
50 - 54	5
55 - 59	4
60 - 64	4
65 - 69	1

1) Which inaugural age range has the most amount of presidents in it?

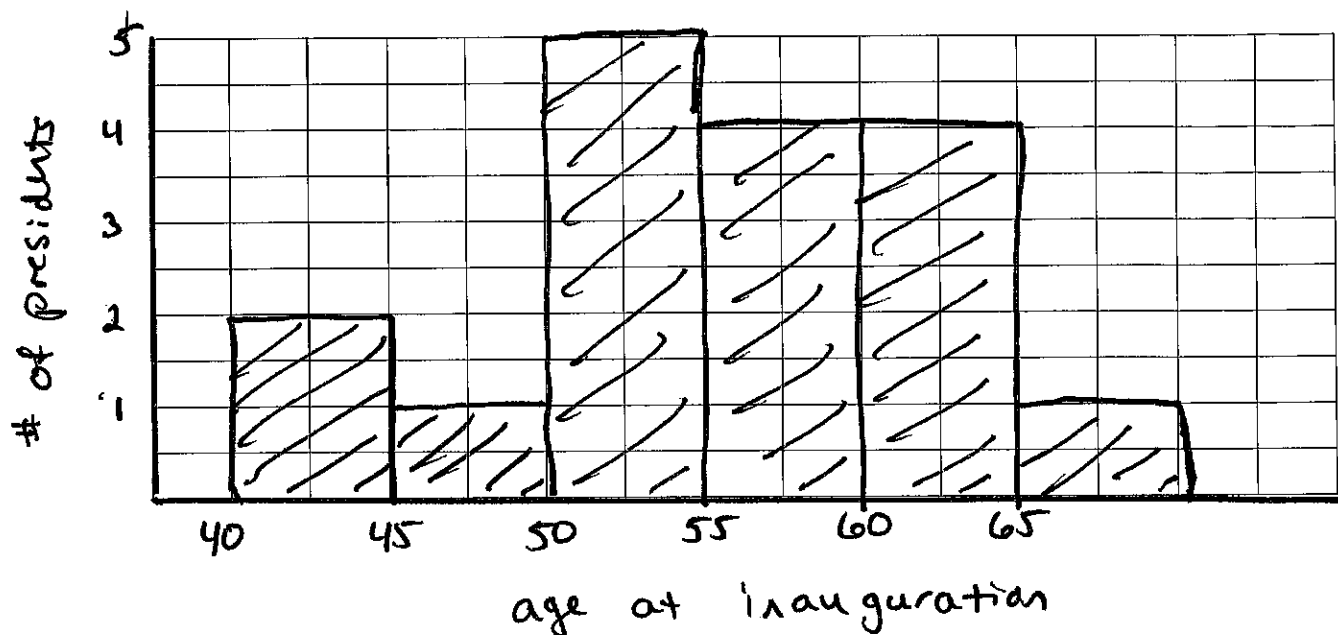
50-54

2) Which inaugural age range has the least amount of presidents in it?

45-49

+

65-69



Instructions for the graphing calculator:

Press stat and enter and put all the ages in list 1

Press 2nd and stat plot (at top on left)

Press enter to edit stat plot 1

Press enter to turn the plot on

Scroll down and highlight the histogram and press enter

Make sure that the xlist is L1 and freq is 1

Press graph

Press zoom then 9

Assignment: pages 135 - 141 # 7-8 (no graphs needed), 7-9, 7-10, 7-11, 7-17, 7-18, 7-19, 7-21