

Chapter 2 Descriptive Statistics

1.

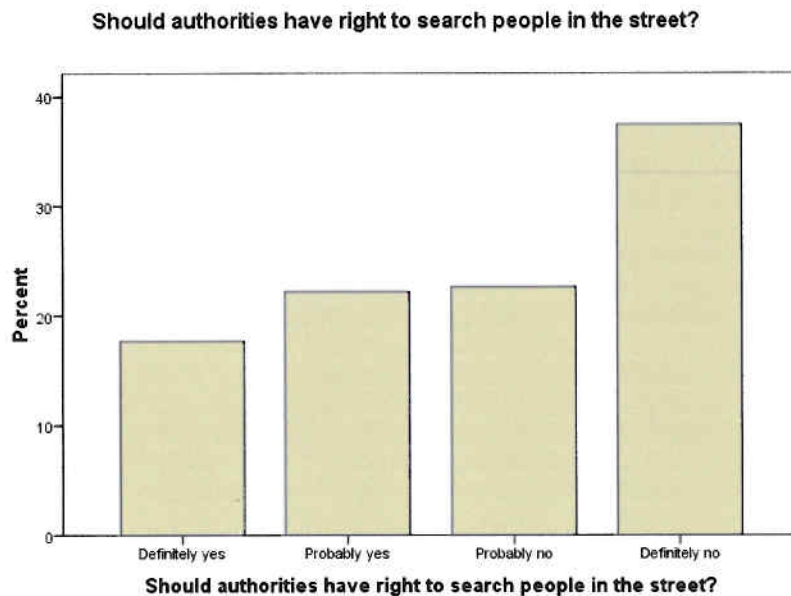
A.

Should authorities have right?	stoprndm Valid Percent	taphone Valid Percent	wotrial Valid Percent
Definitely yes	17.7	26.7	24.0
Probably yes	22.2	28.5	28.6
Probably no	22.6	18.8	25.5
Definitely no	37.4	26.0	21.9
Total	100.0	100.0	100.0

B. Dissensus exists on the question of whether the authorities should have the right to detain people for as long as they want without putting them on trial.

C. Stop and search people. Of the three issues, the stop-and-search question has the highest percentage of respondents in the strongest pro-civil liberties response, with 37.4% responding “definitely no.” Plus, 60.0% of the respondents answered “definitely no” or “probably no.” This could be the basis of a pro-civil liberties consensus.

D.



2.

A. Scenario X: Tallest bar (or peak of curve) at value 6; bars tapering off in symmetrical pattern below and above 6. Scenario Y: Tallest bar (or peak of curve) at value 6; longer and skinnier tail above 6. Scenario Z: Tallest bar (or peak of curve) at value 6; longer and skinnier tail below 6.

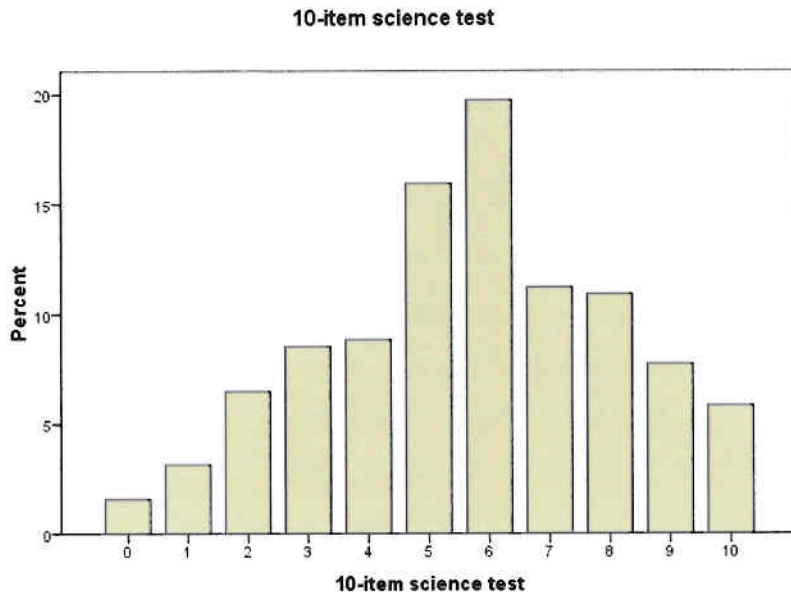
B.

science_quiz	Frequency	Valid Percent	Cumulative Percent
0	10	1.6	1.6
1	20	3.2	4.7
2	41	6.5	11.2
3	54	8.5	19.7
4	56	8.8	28.6
5	101	16.0	44.5
6	125	19.7	64.3
7	71	11.2	75.5
8	69	10.9	86.4
9	49	7.7	94.2
10	37	5.8	100.0
Total	633	100.0	

C. Scenario Z. Scores of science_quiz are centered at 6 but taper off into a skinnier tail below 6, toward lower scores. This gives the distribution a negative skew.

D. About 60 percent; About 40 percent

E.



3.

A. A negative skew; a positive skew; lower than its median; higher than its median

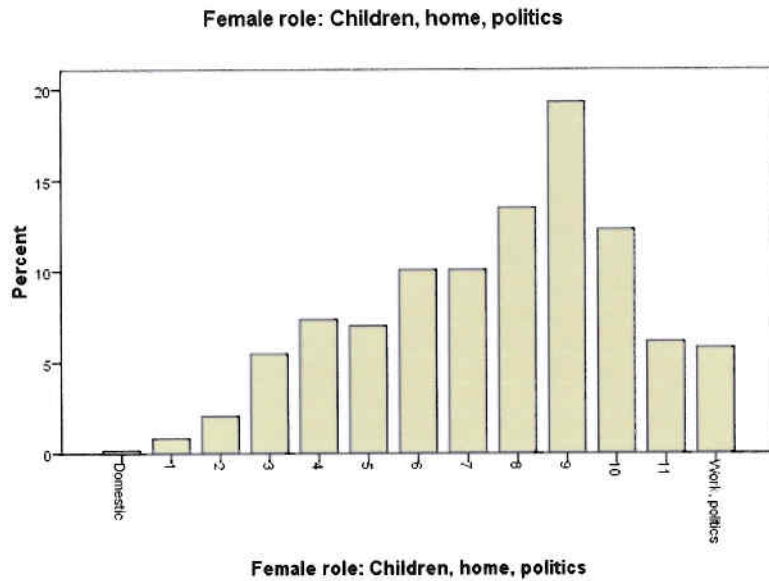
B.

Statistics for fem_role	
Mean	7.58
Median	8.00
Mode	9
Skewness	-.396
Std. Error of Skewness	.101

C. Bar chart X

D. Pundit 1's. The distribution has a significant negative skew. The skewness statistic is more than twice its standard error. The median is 8 and the mode is 9, suggesting that the mean, 7.58, is a poor representation of the center of the distribution. The skinnier left-hand tail is pulling down the mean, below the center of the distribution.

E.



4.

A. Sketch should show nine equal-height bars (one for each value of attend) inside the shell.

B. Sketch should show one bar at any value of attend.

C. Mode, never; median, several times/year (code 3)

D. High dispersion