Answers

Computing and Interpreting Discriptive Statistics from a Group Analysis

Directions: Conduct a group analysis on the data set given. Assume the data were gatherd prior to an intervention (such as, classroom instruction, counseling, therapy). Construct a frequency polygon of the scores. Compare the distribution to a normal distribution in terms of its modality and symmetry. Based on your calculated statistics, identify two decisions you would make with these results.

Total Number of test items: 40

Raw scores: 36 34 32 40 32 30 36 30 28 38 26 34 26 34 36 24 38

X	f	Cum f	fX	X-Mean = x	x^2	fx^2
24	1	1	24	-8.6	73.96	73.96
26	2	3	52	-6.6	43.56	87.12
28	1	4	28	-4.6	21.16	21.16
30	2	6	60	-2.6	6.76	13.52
32	2	8	64	0.6	0.36	0.72
34	3	11	102	1.4	1.96	5.88
36	3	14	108	3.4	11.54	34.68
38	2	16	76	5.4	29.16	58.32
40	1	17	40	7.4	54.76	54.76
Totals:	17		554			350.12

Mean= 32.6
Median= 33.67
Mode= 34, 36
Range= 16
Standard Deviation= 4.54
N= 17