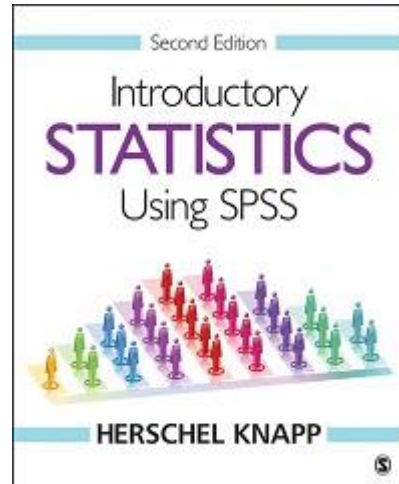


Chapter 10

Supplemental SPSS Operations

Solutions to Odd Numbered Exercises



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Exercise 10.1

(a)			
Rec.#	name	score	skill
1	Adrian	50	Novice
2	Alex	46	Novice
3	Avery	62	Novice
4	Bailey	71	Intermediate
5	Blaine	88	Expert
6	Blake	22	Novice
7	Bo	70	Intermediate
8	Brett	27	Novice
9	Brook	61	Novice
10	Cameron	67	Novice
11	Cary	37	Novice
12	Casey	59	Novice
13	Chris	12	Novice
14	Corey	44	Novice
15	Dale	48	Novice
16	Daryl	71	Intermediate
17	Dean	84	Intermediate
18	Devin	49	Novice
19	Drew	75	Intermediate
20	Dustin	71	Intermediate
21	Dusty	82	Intermediate
22	Erin	44	Novice
23	Evan	42	Novice
24	Jaden	82	Intermediate
25	Jan	59	Novice
26	Jean	5	Novice
27	Jess	34	Novice
28	Jessie	72	Intermediate
29	Kelly	68	Novice
30	Kerry	17	Novice
31	Kyle	58	Novice
32	Lee	39	Novice
33	Lindsay	73	Intermediate
34	Morgan	82	Intermediate
35	Ray	27	Novice
36	Rene	49	Novice
37	Riley	27	Novice
38	Robin	46	Novice
39	Ryan	2	Novice
40	Sandy	92	Expert
41	Sean	11	Novice
42	Spencer	85	Expert
43	Taylor	22	Novice
44	Toby	58	Novice

(b)			
Rec.#	name	score	skill
1	Sandy	92	Expert
2	Blaine	88	Expert
3	Spencer	85	Expert
4	Dean	84	Intermediate
5	Dusty	82	Intermediate
6	Jaden	82	Intermediate
7	Morgan	82	Intermediate
8	Drew	75	Intermediate
9	Lindsay	73	Intermediate
10	Jessie	72	Intermediate
11	Bailey	71	Intermediate
12	Daryl	71	Intermediate
13	Dustin	71	Intermediate
14	Bo	70	Intermediate
15	Kelly	68	Novice
16	Cameron	67	Novice
17	Avery	62	Novice
18	Brook	61	Novice
19	Zane	61	Novice
20	Casey	59	Novice
21	Jan	59	Novice
22	Kyle	58	Novice
23	Toby	58	Novice
24	Val	58	Novice
25	Adrian	50	Novice
26	Devin	49	Novice
27	Rene	49	Novice
28	Dale	48	Novice
29	Alex	46	Novice
30	Robin	46	Novice
31	Corey	44	Novice
32	Erin	44	Novice
33	Evan	42	Novice
34	Lee	39	Novice
35	Cary	37	Novice
36	Jess	34	Novice
37	Brett	27	Novice
38	Ray	27	Novice
39	Riley	27	Novice
40	Blake	22	Novice
41	Taylor	22	Novice
42	Kerry	17	Novice
43	Chris	12	Novice
44	Sean	11	Novice

45	Val	58	Novice
46	Zane	61	Novice

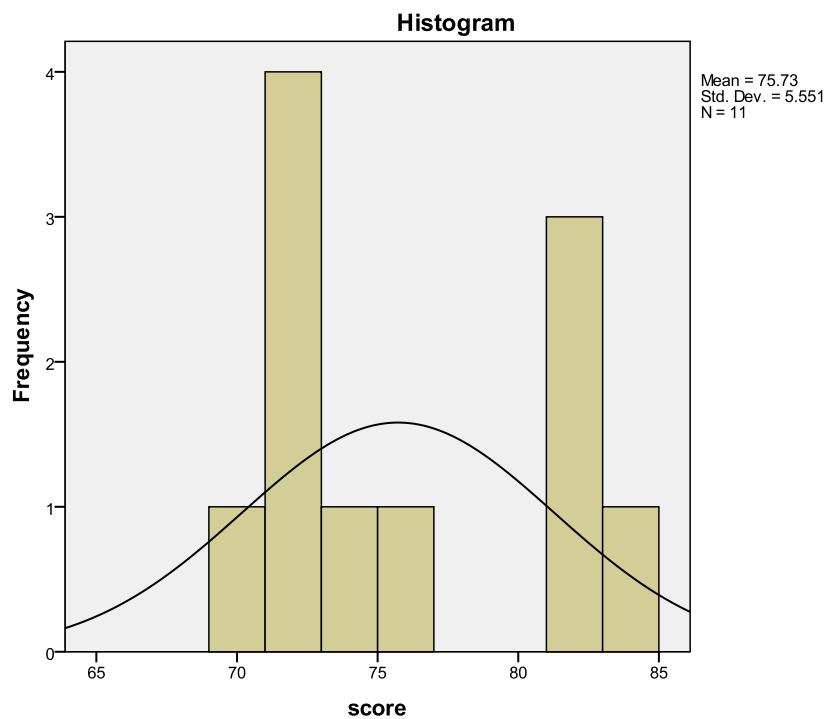
45	Jean	5	Novice
46	Ryan	2	Novice

Exercise 10.3

(a)

Statistics		
score		
N	Valid	11
	Missing	0
Mean		75.73
Median		73.00
Mode		71 ^a
Std. Deviation		5.551
Variance		30.818
Range		14
Minimum		70
Maximum		84

a. Multiple modes exist. The smallest value is shown



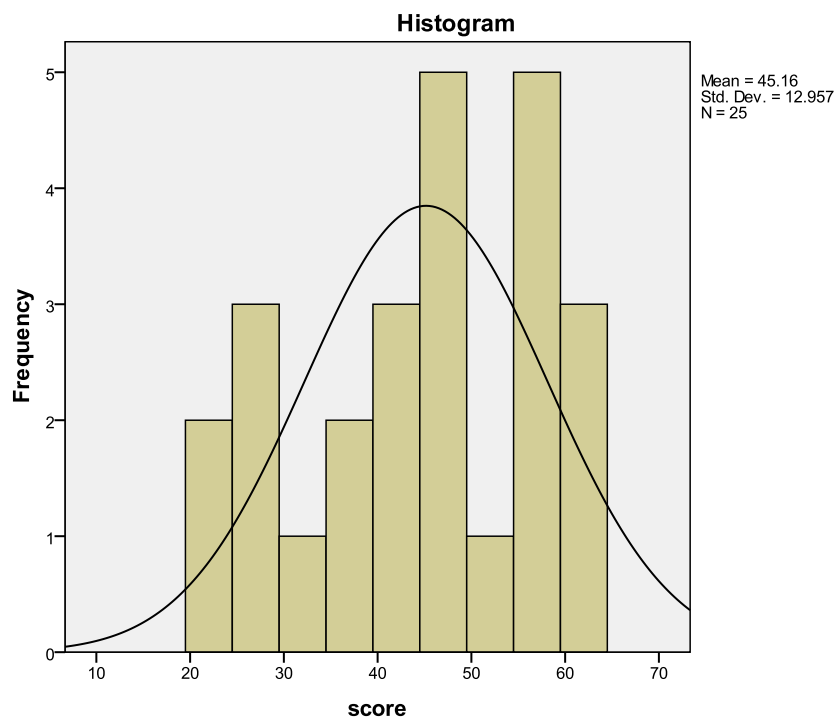
(b)

Statistics

score

N	Valid	25
	Missing	0
Mean		45.16
Median		46.00
Mode		27 ^a
Std. Deviation		12.957
Variance		167.890
Range		40
Minimum		22
Maximum		62

a. Multiple modes exist. The smallest value is shown



Exercise 10.5

(a)

Rec. #	name	score	skill	result
1	Brook	61	Novice	Fail
2	Ray	27	Novice	Fail
3	Spencer	85	Expert	Pass
4	Cary	37	Novice	Fail
5	Morgan	82	Intermediate	Pass
6	Erin	44	Novice	Fail
7	Toby	58	Novice	Fail
8	Zane	61	Novice	Fail
9	Riley	27	Novice	Fail
10	Lee	39	Novice	Fail
11	Corey	44	Novice	Fail
12	Ryan	2	Novice	Fail
13	Drew	75	Intermediate	Pass
14	Jess	34	Novice	Fail
15	Jaden	82	Intermediate	Pass
16	Dustin	71	Intermediate	Pass
17	Bo	70	Intermediate	Pass
18	Val	58	Novice	Fail
19	Blake	22	Novice	Fail
20	Dean	84	Intermediate	Pass
21	Casey	59	Novice	Fail
22	Jessie	72	Intermediate	Pass
23	Chris	12	Novice	Fail
24	Robin	46	Novice	Fail
25	Evan	42	Novice	Fail
26	Jan	59	Novice	Fail
27	Daryl	71	Intermediate	Pass
28	Dale	48	Novice	Fail
29	Devin	49	Novice	Fail
30	Sandy	92	Expert	Pass
31	Avery	62	Novice	Fail
32	Lindsay	73	Intermediate	Pass
33	Rene	49	Novice	Fail
34	Blaine	88	Expert	Pass
35	Kyle	58	Novice	Fail
36	Cameron	67	Novice	Fail
37	Sean	11	Novice	Fail
38	Kerry	17	Novice	Fail
39	Brett	27	Novice	Fail
40	Bailey	71	Intermediate	Pass
41	Jean	5	Novice	Fail
42	Kelly	68	Novice	Fail
43	Taylor	22	Novice	Fail
44	Alex	46	Novice	Fail

45	Adrian	50	Novice	Fail
46	Dusty	82	Intermediate	Pass

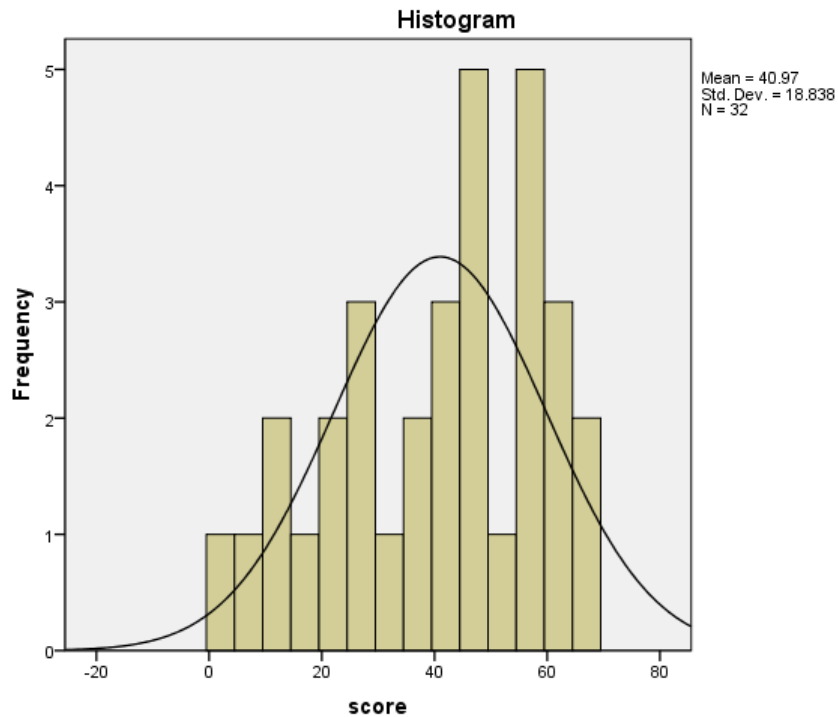
(b)

Statistics

score

N	Valid	32
	Missing	0
Mean		40.97
Median		45.00
Mode		27 ^a
Std. Deviation		18.838
Variance		354.870
Range		66
Minimum		2
Maximum		68

a. Multiple modes exist. The smallest value is shown



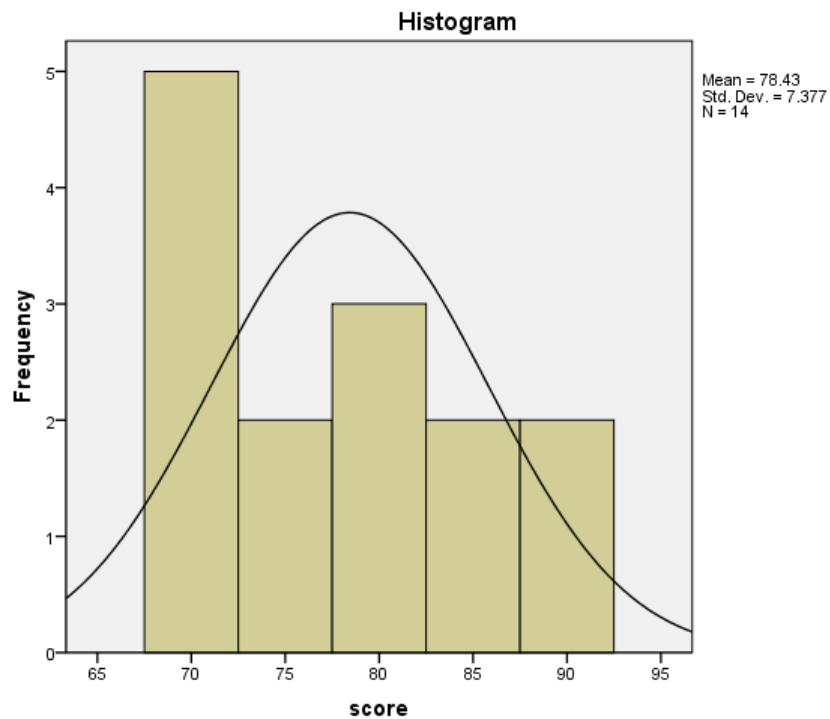
(c)

Statistics

score

N	Valid	14
	Missing	0
Mean		78.43
Median		78.50
Mode		71 ^a
Std. Deviation		7.377
Variance		54.418
Range		22
Minimum		70
Maximum		92

a. Multiple modes exist. The smallest value is shown



Exercise 10.7

comment Program: Report1.sas.
 comment Programmer: H Knapp.
 comment Revision: 1.
 comment Data file: Ch 10 - Exercise 06.sav.

comment This program runs the report for the reading, writing, and math scores.
 comment It sorts the data: reading (ascending), writing (descending), math (ascending).
 comment Finally, it runs descriptive statistics with histograms for reading and math scores.

comment Sort the data using a three-level sort: (1) reading [ascending], (2) writing [descending],
 (3) math [ascending].

`SORT CASES BY reading(A) writing(D) math(A).`

comment Run descriptive statistics (mean, median, mode, maximum, minimum, range, standard deviation, and variance) for reading and math; also include histograms with normal curves for those variables.

`FREQUENCIES VARIABLES=reading math`
`/FORMAT=NOTABLE`
`/STATISTICS=STDDEV VARIANCE RANGE MINIMUM MAXIMUM MEAN MEDIAN MODE`
`/HISTOGRAM NORMAL`
`/ORDER=ANALYSIS.`

comment End of Syntax file.

Exercise 10.9

The purpose of the Work file is to preserve the source (Master) data set in its original form to protect against operator or system errors. Before beginning to work on a data set, it is good practice to make two copies of it: one to save in its original state, and another to work on. For example, if the original file is called *Project18.sav*, I would make two copies of the data: *Project18[MASTER].sav* and *Project18[WORK].sav*.

I would only work on the *Project18[WORK].sav* file and store *Project18[MASTER].sav* someplace safe. If somehow the *Project18[WORK].sav* file became altered or corrupted, I could easily create a new *Project18[WORK].sav* work file from the *Project18[MASTER].sav* file.