Assignment 1: Basic Concepts

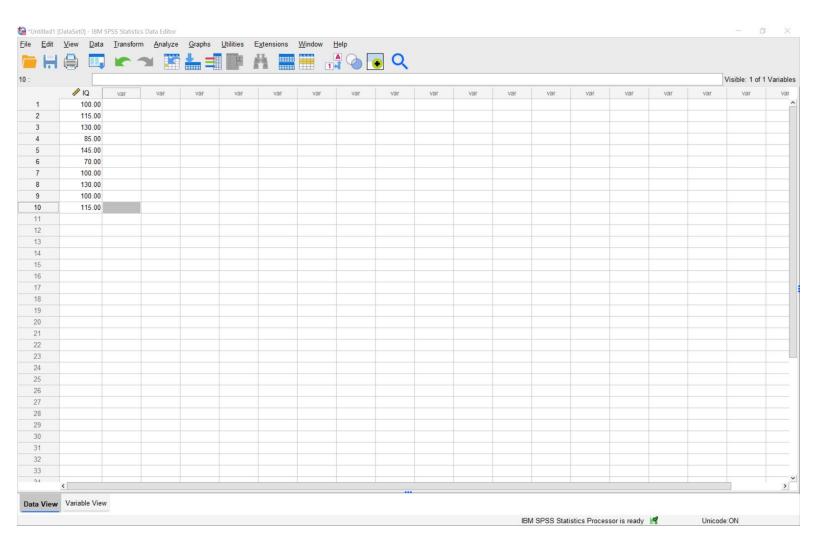
Use the following IQ scores for your SPSS calculations and written answers.

100	115	130	85	145	70	100	130	100	115

SPSS Instructions

- On the bottom left, click Variable View.
- Enter 'IQ' in the first cell.
- On the bottom left, click Data View.
- Enter the IQ scores in the first column.
- Click Analyze, Descriptive Statistics, Frequencies.
- Move the IQ icon over to the Variable(s) box. Click Statistics on the right.
- Select Mean, Median, Mode, Std. deviation.
- Click Continue and OK. A new window will open. This is your Output file.
- Click Graphs, Chart Builder. (If a window other than the Chart Builder appears, check 'Do not show this dialog again' and then exit it by clicking on the x on the top right. Click Graphs and Chart Builder again.)
- Near the bottom left, select boxplot. Drag the 3rd boxplot icon to the box above.
- Near the top left, drag the IQ icon to the x axis of the boxplot.
- Click OK.
- Save the Data file and Output file separately. Use informative file names.

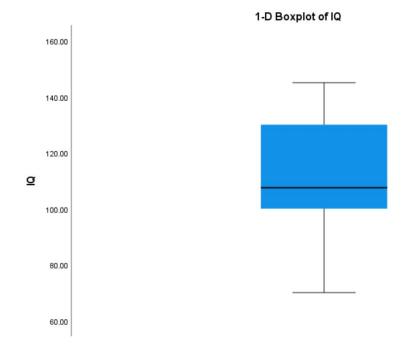
SPSS Data



SPSS Output

Statistics							
IQ							
N	Valid	10					
	Missing	0					
Mean		109.0000					
Median	1	107.5000					
Mode		100.00					
Std. De	viation	22.58318					

GGraph



IBM SPSS Statistics Processor

Written Answers

Show all work.

- (1) Calculate the mean.
- (2) Calculate the median.
- (3) Find the mode.
- (4) Use the computational formula to calculate the standard deviation.
- (5) Create a boxplot.

1)	mean
1.1	
	(100 + 115 + 130 +85 + 145 + 76 + 100 + 130 + 100 + 115) /10 = (109)
-	
7)	median
	Scores ; roidel : 70. 85, 100, 100, 100, 115, 115, 130, 130, 145
	Scores inoider: 70,85, 100,100, 100,115, 115, 130, 130, 145 median location = (N+1)/2 = 11/2 = 5,5
	Alexand of 5th and 6th number = 100+115 = 107.57
3)	Mode of o and o warmer 2 = 101.01
4	[00]
7	Standard de viation
	(4-1)
	$S = \underbrace{\sum x^{\lambda} - \underbrace{\left(\sum x\right)^{\alpha}}_{N-1}}$
	$\sqrt{N-1}$
	$\leq x^{\lambda} = (\leq x)^{\lambda}$
	702 = 4900 70
	85° = 7225 85
	1002 - 10,000 100
	10.55
	100
	1002 = 10,000 100
	115" - 13,225
	1152 = 13,225
	1302 = 16 900 130
	1302 = 16,900 130
	110 01100
	= 123,400 =1090 -> 1090° = 1,18.8,100
	11/9/20
	5= 123,400 _ 1183,100 5= 22,58
	The state of the s
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