# King Abdul Aziz University Department of Statistics 

Assignment 1(SPSS part)
Stat 210 LAB
Term 1, 2016
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Name:
ID:
Section:
Marks Obtained: $\qquad$

Please print output sheet separated by questions

The due date is next week, class time

## Question\#1:

The following information for students in a kindergarten in Jeddah:

## 1. Student Name: 두ำ

2. Gender: $\square$ Male $\quad \square$ Female
3. Birthday Date of student: [םם/םם/םם [dd.mm.yy]
4. Student level: $\square$ Nursery $\square K G 1 \square K G 2 \square K G 3$
5. Weight of student: kg
6. Height of student: $\qquad$ cm
7. Number of brothers and sisters: $\qquad$
8. Family's monthly income SR

Define the previous questions in SPSS and save the file by name "Kindergarten". (Print variable view)

## Question\#2:

From the file car_sales.sav Solve the following questions:
(Hint: In version 22 the file can be obtain from local disk(c) $\rightarrow$ Program files $\rightarrow$ IBM $\rightarrow$ SPSS $\rightarrow$ Statistics $\rightarrow 22 \rightarrow$ Samples $\rightarrow$ English $\rightarrow$ car sales.sav )
a. Find $15 \%$ discount of prices of BMW cars (Print Data View)
b. Recode the variable price to:

1 if price < 20,000
2 if $20,000 \leq$ price $<40,000$
3 if $40,000 \leq$ price $<60,000$
4 if price $\geq 60,000$
and name the new variable price2 (Print Data View)
c. From previous statement (b.) how many cars have prices less than 20,000 ?
d. Describe the variable type (by graph) (Print Graph with interpretation)
e. Find the best central tendency and dispersion measures for variable length (Print Output with interpretation)
f. Find the stem and leaf of variable wheelbas, then how many cars have wheelbase between 96 and 99. (Print Graph with interpretation)
g. Test the normality of variable resale (Print Graph with interpretation)
h. From the following boxplot, obtain median, shape of distribution, third quartile and inter-quartile range (IQR).


## Question\#3:

Choose the correct answer for the following statements: (Please print this page with your answer)

1. If the skewness of a distribution is 1.56 and its kurtosis is -6.31 , then the shape of this distribution is:
a. Flat and right skewed
b. Flat and left skewed
c. Thin and right skewed
d. Thin and left skewed
2. from the following boxplots:

a. The median of engine size of automobile is less than the median of engine size of truck
b. The engine size of automobile has outlier
c. The range of engine size of truck less than the range of engine size of automobile
d. All of above
3. Suppose the following data: 33263837373324293139 then:
a. There is no mode
b. The data is unimodal
c. The data is bimodal
d. The data is multimodal
4. Which central tendency measure(s) can be use in qualitative data?
a. Mean, median and mode
b. Mode and median
c. Only mode
d. None of above
