

Course No: 1307
Course Title: Statistics
Date: 25/11/2014
No. of Questions: (05)
Time: 1H
Using Calculator (YES)

University of Palestine

Mid Sem. Exam
2014/2015
Total Grade: 20 Marks

Instructor Name: Dr. Ibrahim Tabash
Student No.: _____
Student Name: _____
College Name: _____
Dep. / Specialist: _____
Using Dictionary (No)

Q1)

Smartphones. Several companies conduct reviews and perform rankings of products of special interest to consumers. One such company is **TopTenReviews, Inc.** As of October 2008, the top 10 smartphones, according to TopTenReviews, Inc., are as shown in the second column of the following table. Identify the type of data provided by the information in each column of the table.

Rank	Smartphone	Battery (minutes)	Internet browser	Weight (oz)
1	Apple iPhone 3G 16GB	300	No	4.7
2	BlackBerry Pearl 8100	210	Yes	3.1
3	Sony Ericsson W810i	480	Yes	3.5
4	HP iPaq 510	390	Yes	3.6
5	Nokia E61i	300	Yes	5.3
6	Samsung Instinct	330	No	4.8
7	BlackBerry Curve 8320	240	No	3.9
8	Motorola Q	240	Yes	4.1
9	Nokia N95 (8GB)	300	No	4.5
10	Apple iPhone 4 GB	480	Yes	4.8

[Quantitative, Discrete data, Continuous data, Qualitative data]

- A) Rank
- B) Smartphone
- C) Battery (Minutes)
- D) Internet browser
- E) Weight (oz)

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Q2)

Top Broadcast Shows. The networks for the top 20 television shows, as determined by the *Nielsen Ratings* for the week ending October 26, 2008, are shown in the following table.

CBS	ABC	CBS	ABC	ABC
Fox	CBS	CBS	Fox	CBS
ABC	CBS	CBS	CBS	Fox
Fox	Fox	CBS	Fox	ABC

A) Determine a frequency distribution.

B) Obtain a relative-frequency distribution.

C) Draw a pie chart.

D) Construct a bar chart.

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Q3)

Fuel Economy. Every year, *Consumer Reports* publishes a magazine titled *New Car Ratings and Review* that looks at vehicle profiles for the year's models. It lets you see in one place how, within each category, the vehicles compare. One category of interest, especially when fuel prices are rising, is fuel economy, measured in miles per gallon (mpg). Following is a list of overall mpg for 14 different full-sized and compact pickups.

14	13	14	13	14	14	11
12	15	15	17	14	15	16

Find the

A) Mean

B) Median

C) Mode(s).

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Q4)

Given you the following dataset:

2	5	0	-1
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Determine the:

A) Range.

B) Sample Standard Deviation using Computing Formula.

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Q5)

Coin Tossing. When a dime is tossed four times, there are the following 16 possible outcomes.

HHHH	HTHH	THHH	TTHH
HHHT	HTHT	THHT	TTHT
HHTH	HTTH	THTH	TTTH
HHTT	HTTT	THTT	TTTT

Here, for example, HTTH represents the outcome that the first toss is heads, the next two tosses are tails, and the fourth toss is heads.

List the outcomes constituting each of the following four events.

- A = event exactly two heads are tossed,
- B = event the first two tosses are tails,
- C = event the first toss is heads,
- D = event all four tosses come up the same.