	NAME: <u>I</u>	Markus Afonso	Set: C	<u> </u>
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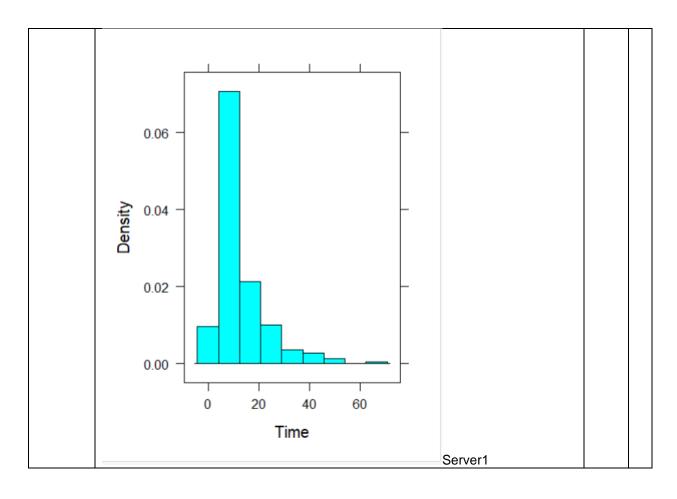
MATH 1350 Statistics for Information Technology

Lab # 1 – Exploratory Data Analysis With R

Answer/Grading Sheet

Step:	Answer (if requested)	Mar k	
3	load the mosaic package		/ 1
4	 import data files change working directory 		/ 2 / 1
5	copy/save document with the name <i>nnn</i> Lab1Answers.docx		/
6	Answer to Question 1: From the data set, I see that there is a large difference in download times between both data sets because the server 1 seems to have much higher and lower extremes, whereas server 2 values seems to have less deviation.		3
7	 server 1 & server 2 histograms (Export -> Save as Image in R and then Insert -> Pictures in Word) 		2
	Answer to Question 2:		/ 1
			/ 2

NAME & Set:



Step:	Answer (if requested)	Mar k	
	0.20		
	0.15 -		
	Density		
	0.05 -		
	0.00 - 15 - 10 - 15		
	Time		
	Server 2		
	From the histograms we can tell that there is a large difference in the density between server 1 and 2.		
	Answer to Question 3:		
	Based on these histograms I would say that the majority users would not notice a large different between the two servers as on both graphs the time tends to peak around 5-10 seconds		
8	server 1 & server 2 log(Time) histograms (paste them in here)		/ 2
	Answer to Question 4:		/
			2
			/ 2

Step:	Answer (if requested)	Mar k	
	0.6 - 0.4 - 0.2 - 0.0 -		

Step:	Answer (if requested)	Mar k	
	1.5		
	1.0 -		
	O.5 –		
	1.5 2.0 2.5 3.0		
	log(Time)		
	Server 2		
	The shape is a bell curve		
	Answer to Question 5:		
	The main differences between these two graphs are the differences in density and extremes. Server 1 has a lower density and higher extremes whereas server 2 has higher density with lower extremes		
9	mean time for server 1 & server 2: (type them in here)		/
	Server 1: 12.69262 Server 2: 7.583346		2 / 2
	Answer to Question 6:		/
	They seem to be measuring the average time it takes to download a 50mb file.		2
	Answer to Question 7:		
	Yes, with server 2 having a higher density it would make sense for it to have a lower average time. In other words, the are more download times that are		

NAME & Set:	

Step:	Answer (if requested)	Mar k	
	between 5-10 seconds and lesser extremes compared to server 1 so it would make sense for server 2 for have a lower average time.		
R script			/ 5
•	or R script here. It should contain all the commands you used to complete Commands entered in the console should be copied into your script!		
BCIT/De	ata <- read.delim("C:/Users/Markus/OneDrive - esktop/Term2/MATH 1350 Statistics for IT/Week1/server1data.txt", t.char="#")		
	2:/Users/Markus/OneDrive - BCIT/Desktop/Term2/MATH 1350 Statistics		
Server2D	Data=read.delim("server2data.txt",header=TRUE,sep="\t",na.strings="NA", t.char="#")		
_	n(~log(Time), data=server1data) n(~log(Time), data=Server2Data)		
,	ime, data=server1data) ime, data=Server2Data)		
			/20