







































Example 1, Continued

QIf successful, the imported data set name will appear in the tool bar and the View and Edit data set tabs will become active.













Example 2(A) Solutions Continued

In the next lecture we will learn how to generate basic tables to check answers. But another way we can do a simple check is simply to view the data –

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	File Edit	Data Stati	stics Gra	aphs Models D	istributi	Tools Help			
	R Da	ata set: 🔲 Da	taset	🗾 Edit data set	🖻 View da	ta set Model:	No active r	model>	
	R Script	R Markdown							
R					Dat	aset		<u> </u>	
S	pecID	Hhsize Nu	mTVs :	InternetHH (OwnRent	YrsInPanel	TotTWLSW	AgeofPanelist	Internet
1	101	1	1	(1					YES
2	102	1	2	1					YES
3	103	3	1	1					YES
4	104	1	1	1					YES
5	105	2	1	1					YES
6	106	4	1	0					NO
7	107	2	4	0	2	1.50	75.25	56	NO
8	108	NA	3	1	2	0.25	10.25	22	YES
9	109	5	2	0	1	1.00	47.00	49	NO
10	110	4	2	0	1	2.00	39.75	45	NO
11	111	6	5	1	1	2.50	26.25	54	YES
12	112	5	4	1	1	3.00	21.50	43	YES
13	113	3	3	0	1	2.75	44.25	39	NO
14	114	1	16	1	1	3.00	32.25	59	YES
15	115	2	4	0	2	4.75	50.00	57	NO
<									2















Example 2(C), Solutions Continued













Example 3, Part 3 – Solutions

Part 3: Compute the average TV viewing for the last week for households that have internet and those that do not.

Follow the same path to obtain the Numerical Summaries Pane and select the numerical variable (TotTVLSW) and Summary Statistics Required. Then click on the "Summarize by Groups Tab" and then select the grouping variable...

	% Numerical Summaries X Variables (pick one or more) % Groups OwnRent Groups variable (pick one) TotTVLSW InternetHH
Caution: If the grouping variable you need does not appear in the list, check to see that that variable was declared a factor as described in Example 2.	Mean P Standard Deviation P Coefficient of Variation □ Skewness □ Type 1 0 Kutosis □ Type 2 0 Type 3 0 QuantileS□ quantiles: 0,5, .5, .75, 1 Summarize by groups
4/26/2016	OK Cancel Reset Help















































A0: Download R http://cran.r-project.org/bin/windows/base/						
R-3.2.5 for Windows (32/64 bit)						
Download R 3.2.5 for Windows (62 megaty) Installation and other instructions New features in this version	es, 32/64 bit)					
If you want to double-check that the package you have downloaded exactly matches the package distributed by R, you can compare the <u>md/sum</u> of the .exe to the <u>true fingerprint</u> . You will need a version of md/sum for windows: both <u>graphical</u> and <u>command line versions</u> are available.						
	Frequently asked questions					
How do Linstall R when using Windows Vista? How do Lupdate packages in my previous versi Should I run 32-bit or 64-bit R?	on of R?					
4/26/2016	TRENT D. BUSKIRK, PH.D. R FOR SPSS USERS AAPOR WEBINAR	65				









R Commander – Statistics Graphs Models Distributions Tools Help Rest Z fdit data set @ View data set Models × <no active="" models<br="">w 100*.Table/sum(.Table), 2) # percentages for OwnRent</no>
Stating orapis woose Unintrution for Hep Rest Z Edit data set Vew data set Model: X <no active="" models<="" td=""> w Wey Submit 100*.Table/sum(.Table), 2) # percentages for OwnRent</no>
w (% Submit 100*.Table/sum(.Table), 2) # percentages for OwnRent
100*.Table/sum(.Table), 2) # percentages for OwnRent
.33
(.Table)
(Rtest, function(x)(sum(is.na(x)))) # NA counts pecID Hhsize NumTVs InternetHH
0 1 0 0 nRent YrsInPanel TotTWLSW AgeofPanelist
0 0 0 0
t(~ NumTVs, data=Rtest, id.method="y")
t(~ NumTVs, data=Rtest, id.method="identify")
E: The dataset Rtest has 15 rows and 8 columns. E: The dataset Rtest has 15 rows and 8 columns.













A4: Additional Examples of Packages focused on Descriptive Statistics						
• Th >libr >de: REC mea pero high	e <u>Hmis</u> rary(Hr scribe(QUEST an, 5,10 centiles aest sco	Sc package: nisc) mydata) S: n, nmiss, unique, 0,25,50,75,90,95th s,5 lowest and 5 pres	The <u>pastecs</u> package: >library(pastecs) >stat.desc(mydata) REQUESTS: nbr.val, nbr.null, nbr.na, min max, range, sum, median, mean, SE.mean, CI.mean, var, std.dev, coef.var			
The <u>psych</u> package: >library(psych) >describe(mydata) >describe.by(mydata, gu REQUESTS: item name mean, sd, median, mad			, grouping variable) me ,item number, nvalid, ad, min, max, skew,			
4/25/2016 (Summary statistics as a whole or by the grouping variable)						









A5: R, Rcommander Regression Output

Script Window

```
RegModel.2 <- lm(TotTWLSW~AgeofPanelist+YrsInPanel, data=Rtest)
summary(RegModel.2)
anova(RegModel.2)
```

```
🝓 Submit
Output Window
Call:
lm(formula = TotTWLSW ~ AgeofPanelist + YrsInPanel, data = Rtest)
Residuals:
   Min
             1Q Median
                             3Q
                                    Max
-20.075 -4.771 -3.231
                         7.059 23.586
Coefficients:
            Estimate Std. Error t value Pr(>|t|)
            -12.2067 12.2485 -0.997 0.33864
t 1.2183 0.3878 3.141 0.00851
(Intercept)
AgeofPanelist 1.2183
YrsInPanel
              -2.9021
                          3.9846 -0.728 0.48038
Residual standard error: 12.85 on 12 degrees of freedom
Multiple R-squared: 0.5436, Adjusted R-squared: 0.4675
F-statistic: 7.146 on 2 and 12 DF, p-value: 0.00904
Analysis of Variance Table
Response: TotTWLSW
             Df Sum Sq Mean Sq F value Pr(>F)
AgeofPanelist 1 2271.58 2271.58 13.7613 0.002983
YrsInPanel
                   87.57
                           87.57 0.5305 0.480378
              12 1980.84 165.07
Residuals
```