

An Introduction to SPSS

Workshop Session

conducted by:

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Topics to be Covered

- Starting and Entering SPSS
- Main Features of SPSS
- Entering and Saving Data in SPSS
- Importing Data from Excel
- Simple Data Manipulations
- Performing Descriptive Statistics

Session 1: Starting and Entering SPSS

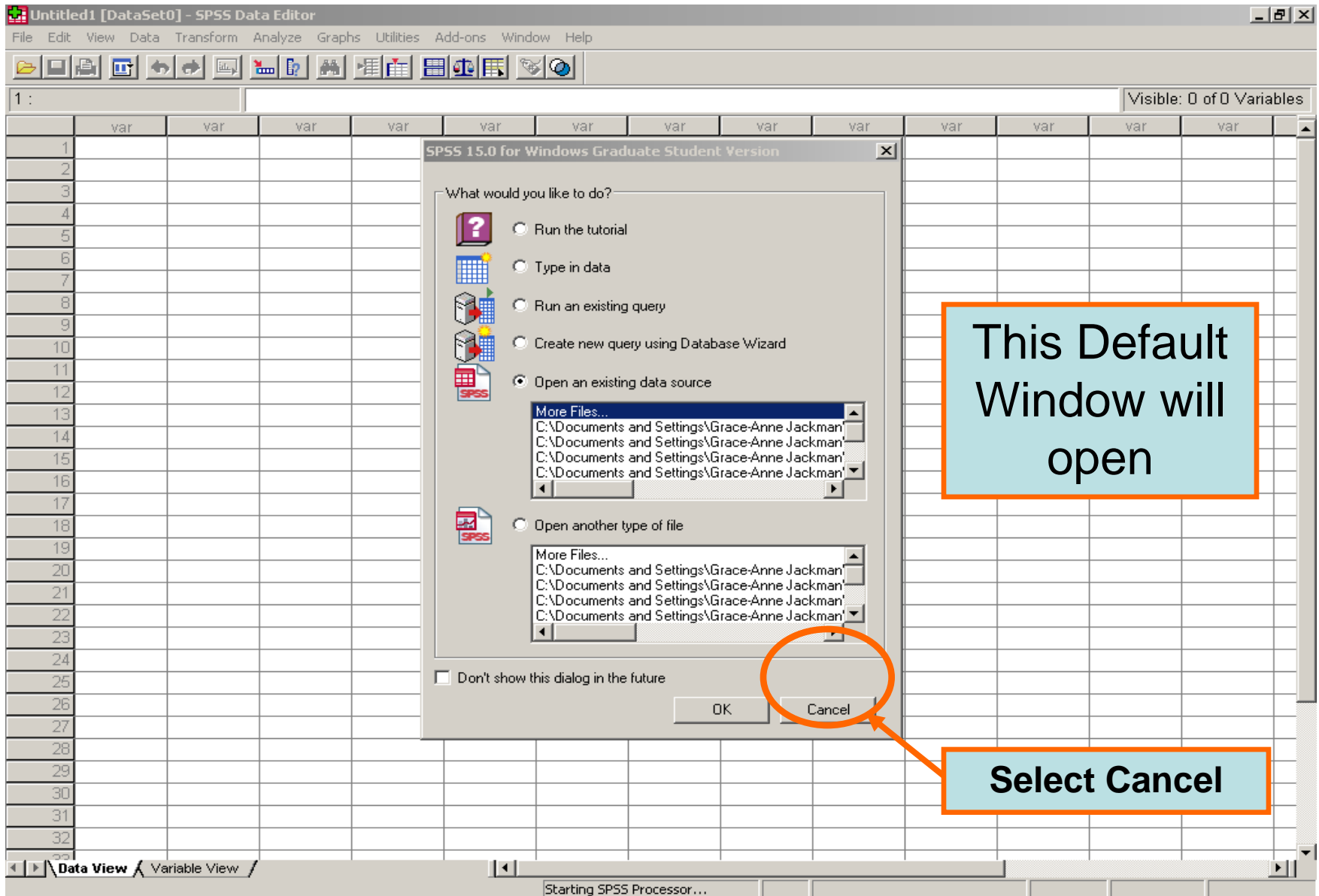


**If SPSS is
already installed
on desktop,
double click on
the SPSS icon.**



- **Open SPSS Via the Start Menu**
Start > All Programs > SPSS for Windows > SPSS 15.0 for Windows Graduate Pack
- **Your SPSS Version Number may be different.**

Entering SPSS



Session 2:

Overview of Main SPSS
Features

Four Main Bars

1. The Title Bar
2. The Menu Bar
3. The Tool Bar
4. The Status Bar



1 : Visible: 0 of 0 Variables

	var	var	var	var	var	var	var	var	var	var	var	var	var	
1														
2														
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TITLE BAR



MENU BAR



- Located below the Title Bar
- Lists a set of the actions/procedures that can be performed
- Uses point and click format to choose from the Pull-Down Menus selection of actions

MENU BAR

File Edit View Data Transform Analyze Graphs Utilities Add-ons Window Help

Action

Common Uses

FILE

- ✓ Open a new/existing file
- ✓ Open a new file
- ✓ Import data into SPSS from an existing text file, Excel spreadsheet or Database
- ✓ Save the data file
- ✓ Exit SPSS for Windows

EDIT

- ✓ To make changes to the data - Copy, Paste, Insert Variables, Insert Cases etc.

VIEW

- ✓ Hide or show Status bar or Toolbar
- ✓ Change font or point size of the data
- ✓ Hide or show gridlines
- ✓ Switch between Data View and Variable View

MENU BAR

File Edit View Data Transform Analyze Graphs Utilities Add-ons Window Help

Action

Common Uses

DATA

- ✓ To manipulate existing SPSS data files - Define variables, Sort cases, Merge files, Split files, Select cases, Weight cases etc.

TRANSFORM

- ✓ Perform computations on variables - Create new variables from existing ones. Recode old variables etc.

ANALYZE

- ✓ Contains extensive list of statistical analysis that can be conducted: Ex: Descriptive statistics, ANOVA, Regression etc.

GRAPHS

- ✓ To obtain high resolution plots and graphs, which can be edited in Chart Editor window.

MENU BAR

File Edit View Data Transform Analyze Graphs Utilities Add-ons Window Help

Action

Common Uses

UTILITIES

- ✓ To move to any open window or to see which window is active. The window with a check mark is the active one.

ADD-ONS

- ✓ Contains a number of Additional Advanced SPSS Products that can be purchased separately and used in conjunction with the base product. Ex: SPSS Conjoint, SPSS Tables, SPSS Maps etc.

WINDOW

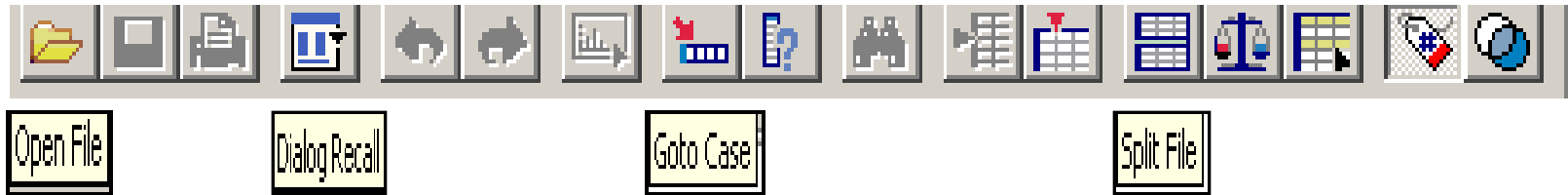
- ✓ To move to any open window or to see which window is active. The window with a check mark is the active one.

HELP

- ✓ To get help on topics in SPSS via a Predefined List of Topics, Tutorial, Statistics Coach, Syntax Guide etc.

TOOL BAR

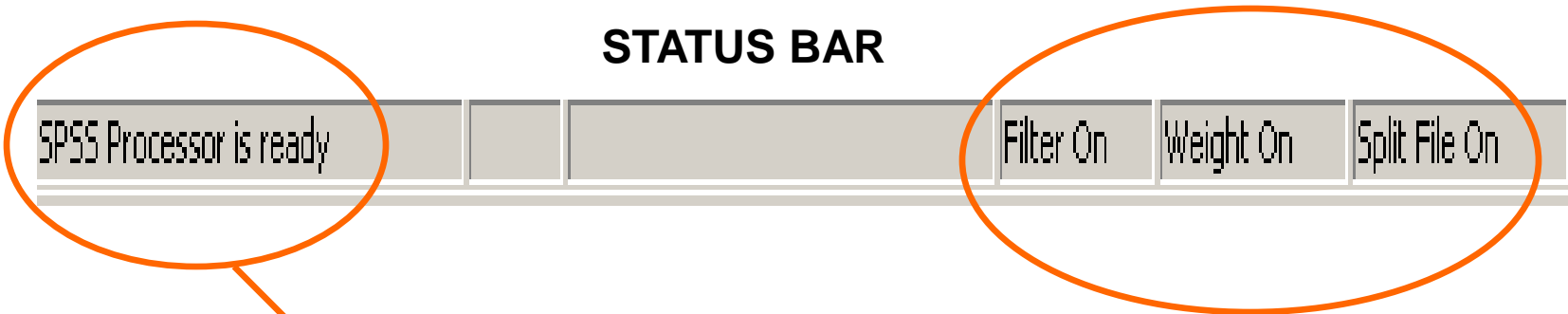
3



- Located below the Menu Bar
- Contains a number of buttons which act as shortcuts
- Roll cursor over each button to see its function

STATUS BAR

4



Shows status of
procedures being run

Indicates whether data are
being filtered, weighted or
subdivided

Three Primary Windows

1. The Data Editor Window

- Data Viewer
- Variable Viewer

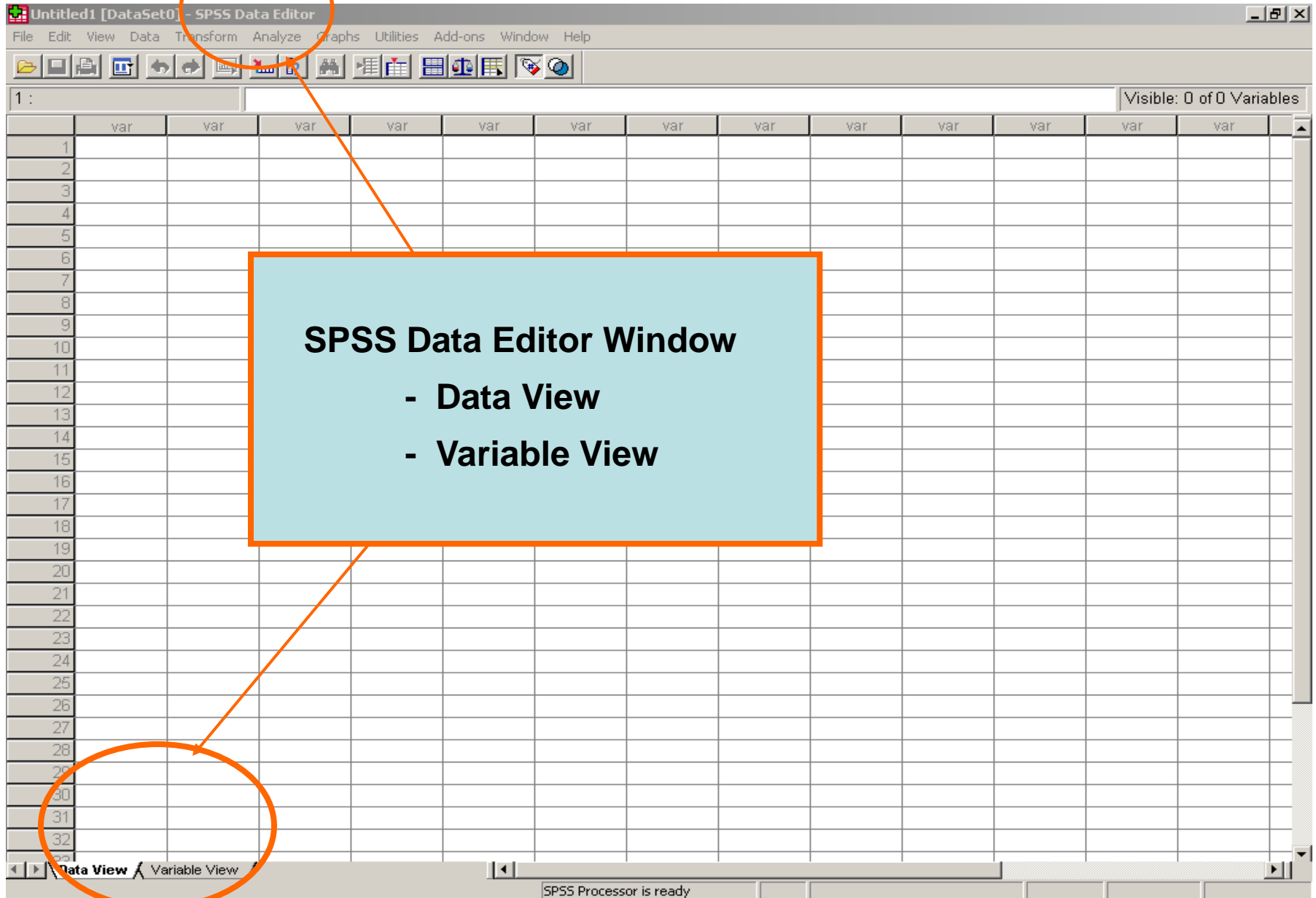
2. The Output Viewer Window

- Contains all the results from performing analyses, e.g. syntax, tables, charts etc.

3. The Syntax Editor Window

- Used to write SPSS programs to run procedures
- Used as an alternative to running analyses via the commands in the Menu Bar

The Data Editor Window



Output Viewer Window

Output1 - SPSS Viewer

File Edit View Data Transform Insert Format Analyze Graphs Utilities Add-ons Window Help

Output
Log
Frequencies
Title
Notes
Gender
Bar Chart

```
FREQUENCIES  
VARIABLES=gender  
/BARCHART FREQ  
/ORDER= ANALYSIS .
```

Syntax

Frequencies

Gender

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Female	469	42.6	42.6	42.6
	Male	631	57.4	57.4	100.0
	Total	1100	100.0	100.0	

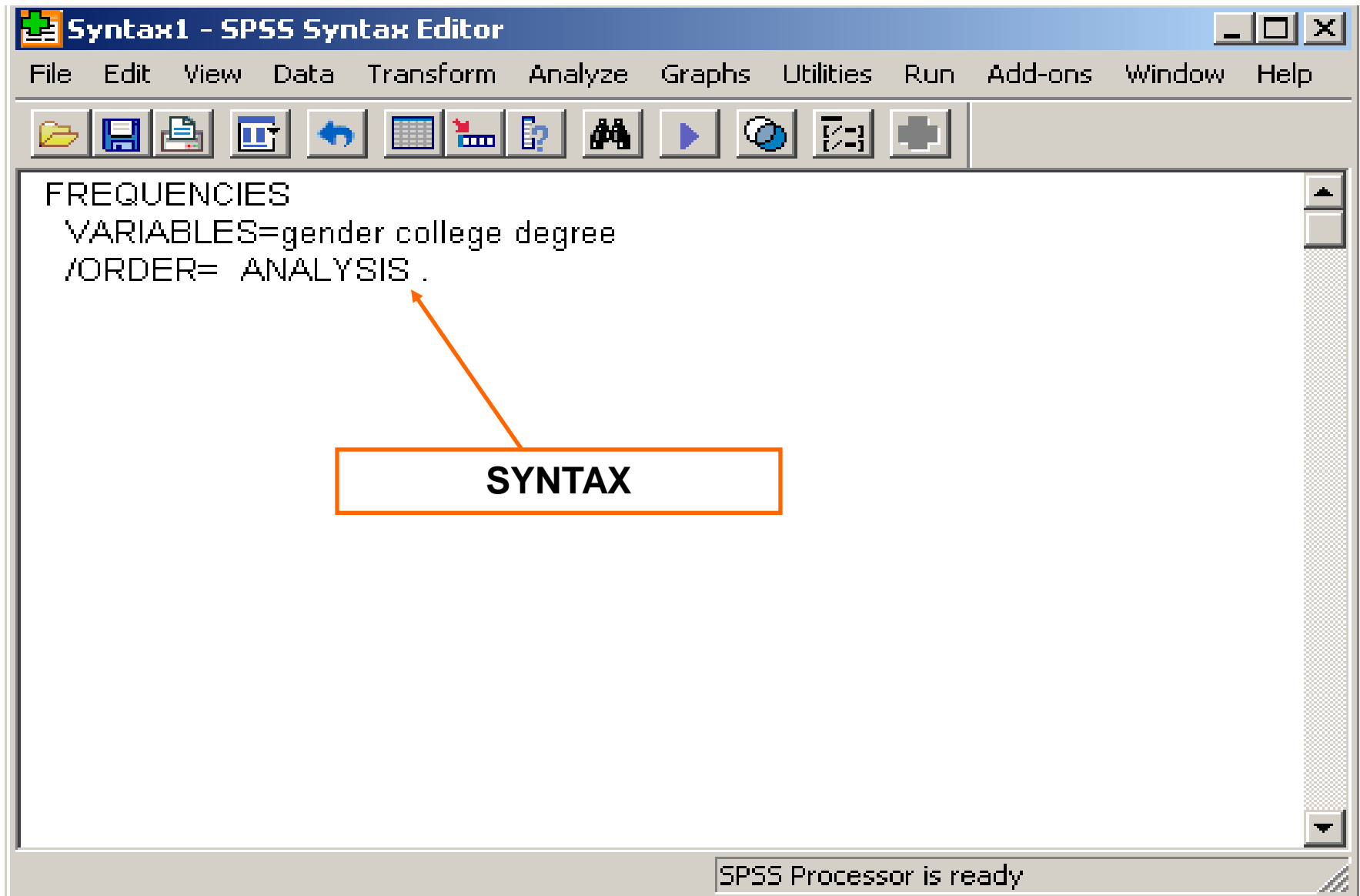
Frequency Table

Percentage

Chart

SPSS Processor is ready

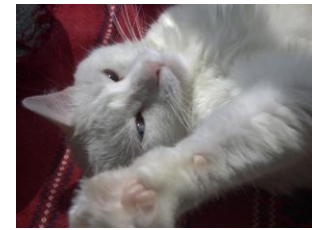
Syntax Editor Window



Session 3: Entering Data in SPSS



Pet Survey



We are very interested in learning more about the pets of students, faculty, and staff at the University of Florida! Please take a few minutes to fill out the survey below. If you do not have a pet, please feel free to imagine a “fantasy” pet and answer the questions with fantasy data.

1. Please circle your average level of happiness on a scale of 1 (extremely unhappy)) to 10 (extremely happy))

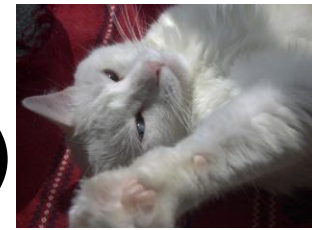
(extremely unhappy) 1 2 3 4 5 6 7 8 9 10 (extremely happy)

2. How many pets do you own? _____ pets

3. What is the name of the pet you have owned the longest (or the name of your fantasy pet)? _____

The next set of questions will apply to the pet you have owned for the longest amount of time (or your fantasy pet).

4. How old is this pet? _____ years



Pet Survey (cont'd)

- [illegible]

Pet Survey

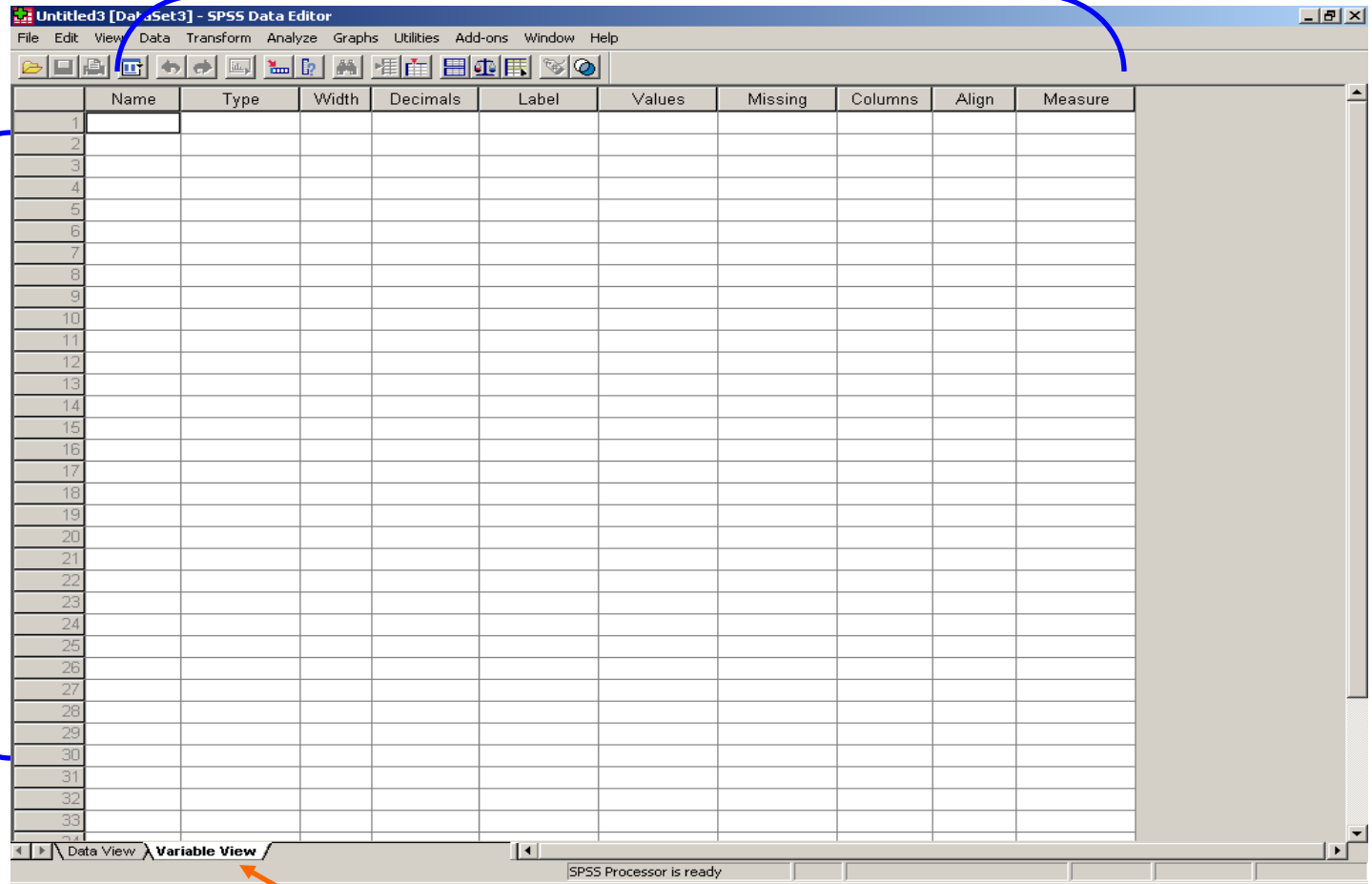
Setting Up the Variables

Setting Up the Variables

- Click on the Variable View Tab at the bottom left of the Data Editor Screen
- Each row represents one of the variables
- Each column represents a specific characteristic/attribute of the variable

The columns represent specific characteristics of the variables

ROWS represent the Variables used in the study



Variable View Tab is now highlighted

Name



Name	Type	Width	Decimals	Label	Values	Missing	Columns	Align	Measure
------	------	-------	----------	-------	--------	---------	---------	-------	---------

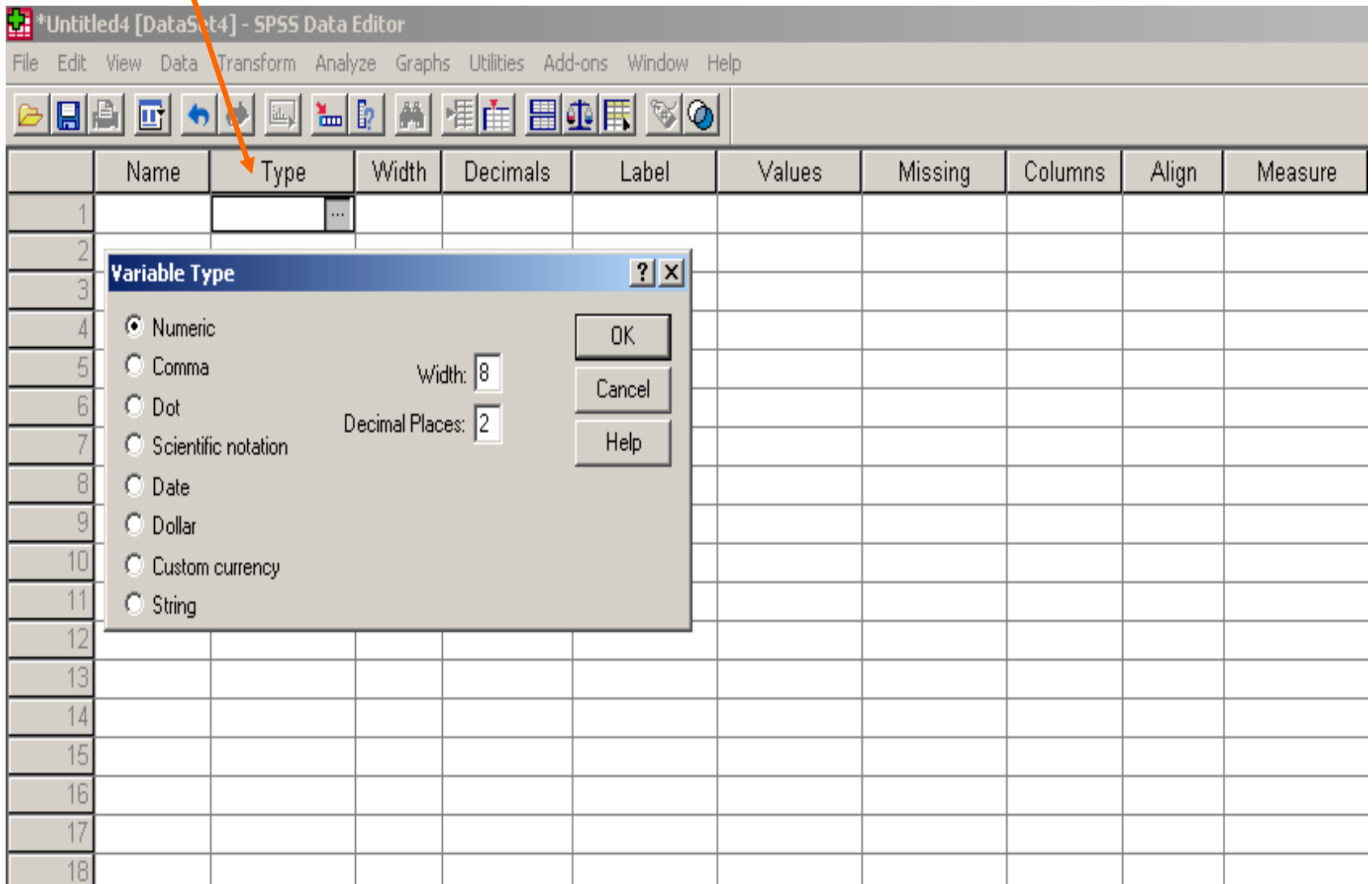
- In the first column, enter the ***Name*** of the Variable.
- Each name must be unique
- It can be up to 64 characters long
- The name cannot begin with a number or contain spaces
- Keep names short but descriptive of variable
- Type in ***Happiness***

Type

Name	Type	Width	Decimals	Label	Values	Missing	Columns	Align	Measure
------	------	-------	----------	-------	--------	---------	---------	-------	---------

- In the second column, click on right of this column
- Select the ***Variable Type***
- The Default is Numeric
- If Numeric, select the Width - Number of digits as well as the Number of Decimal Places
- The Default is Width – 8, Decimal Place - 2

Type (cont'd)



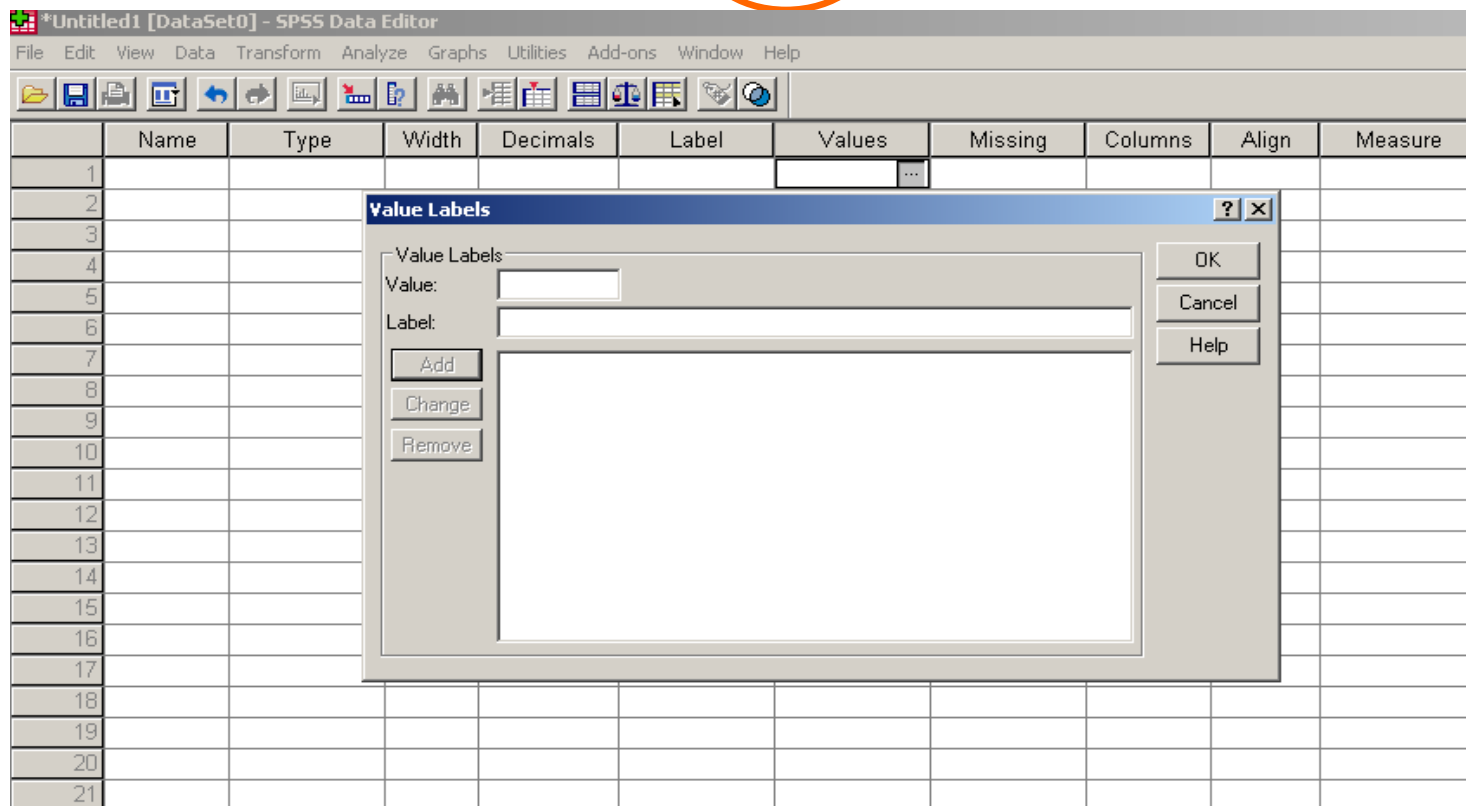
Label

Name	Type	Width	Decimals	Label	Values	Missing	Columns	Align	Measure
------	------	-------	----------	-------	--------	---------	---------	-------	---------

- Label allows you to provide the variable with a longer, more complete description
- Type in *Average level of happiness on a scale of 1 to 10*

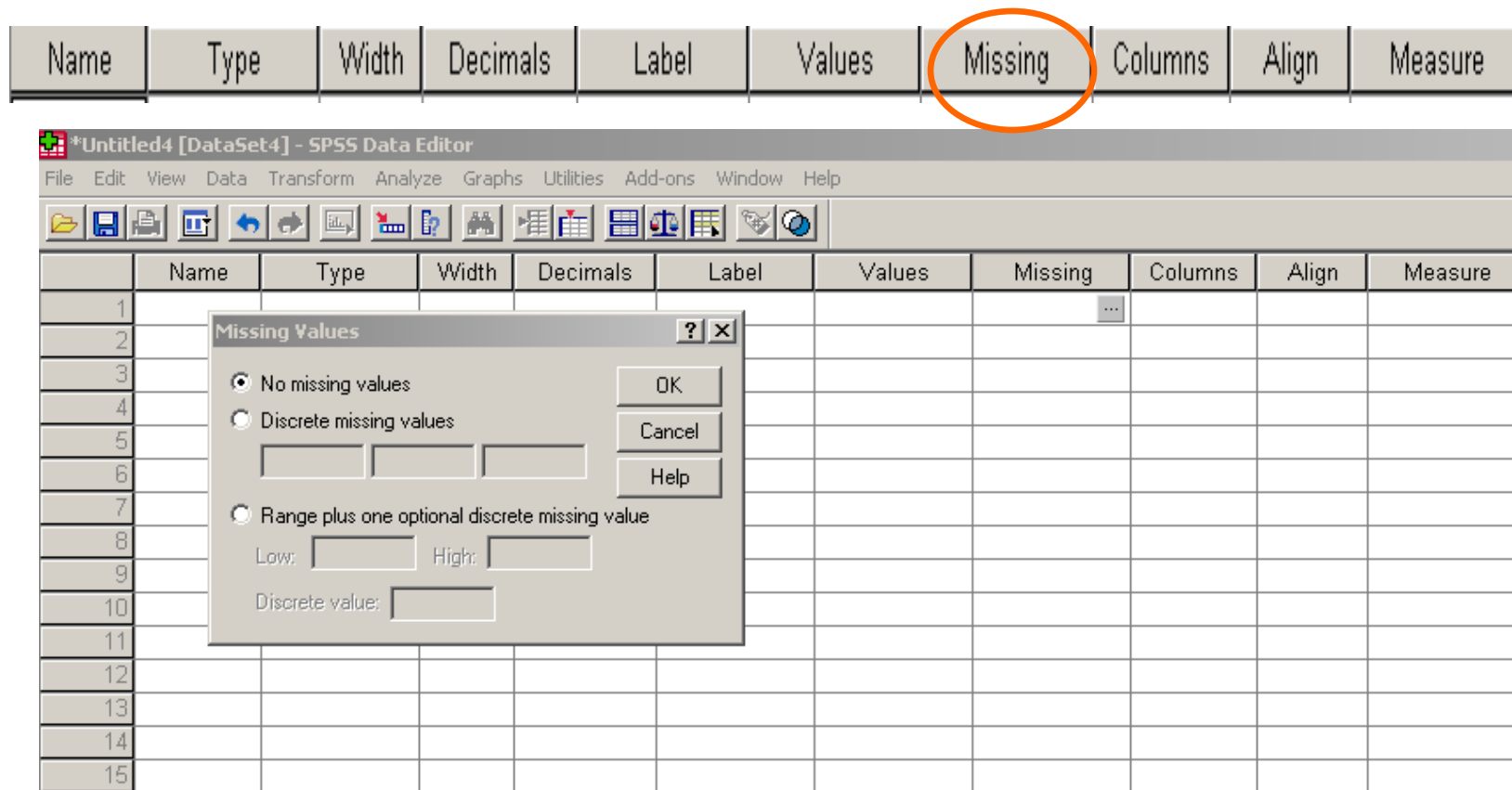
Value Labels

Name	Type	Width	Decimals	Label	Values	Missing	Columns	Align	Measure
------	------	-------	----------	-------	--------	---------	---------	-------	---------



- Used for describing the labels of the categories for Nominal or Ordinal (Categorical) Data

Missing Values




- Used to define specific values as being Missing values: non-response, refusal (e.g. 9, 99)
- Should not be legitimate coded values already included in the data set

Column Width

Name	Type	Width	Decimals	Label	Values	Missing	Columns	Align	Measure
------	------	-------	----------	-------	--------	---------	---------	-------	---------

- The value used for column width indicates how wide the display for each variable will be in the Data View.
- Column widths can also be changed in Data View, by clicking and dragging the column borders.

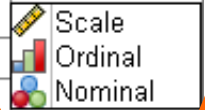
Alignment

Name	Type	Width	Decimals	Label	Values	Missing	Columns	Align	Measure
									
								Left	
								Right	
								Center	

- Determines how the data for this variable are aligned in their cells in the Data View Window

Measurement Level

Name	Type	Width	Decimals	Label	Values	Missing	Columns	Align	Measure



- Specify the variable's measurement level as:
 - Nominal
 - Ordinal
 - Scale (Interval or Ratio)

Setting up the Variables

- Set up the other Variables in SPSS
 - numofpets
 - petname
 - petage
 - sexofpet
 - typeofpet
 - Othertype
 - petweight
 - satisfaction
 - moneyspent
 - timespent

Setting Up the Variables

*Untitled2 [DataSet2] - SPSS Data Editor

File Edit View Data Transform Analyze Graphs Utilities Add-ons Window Help

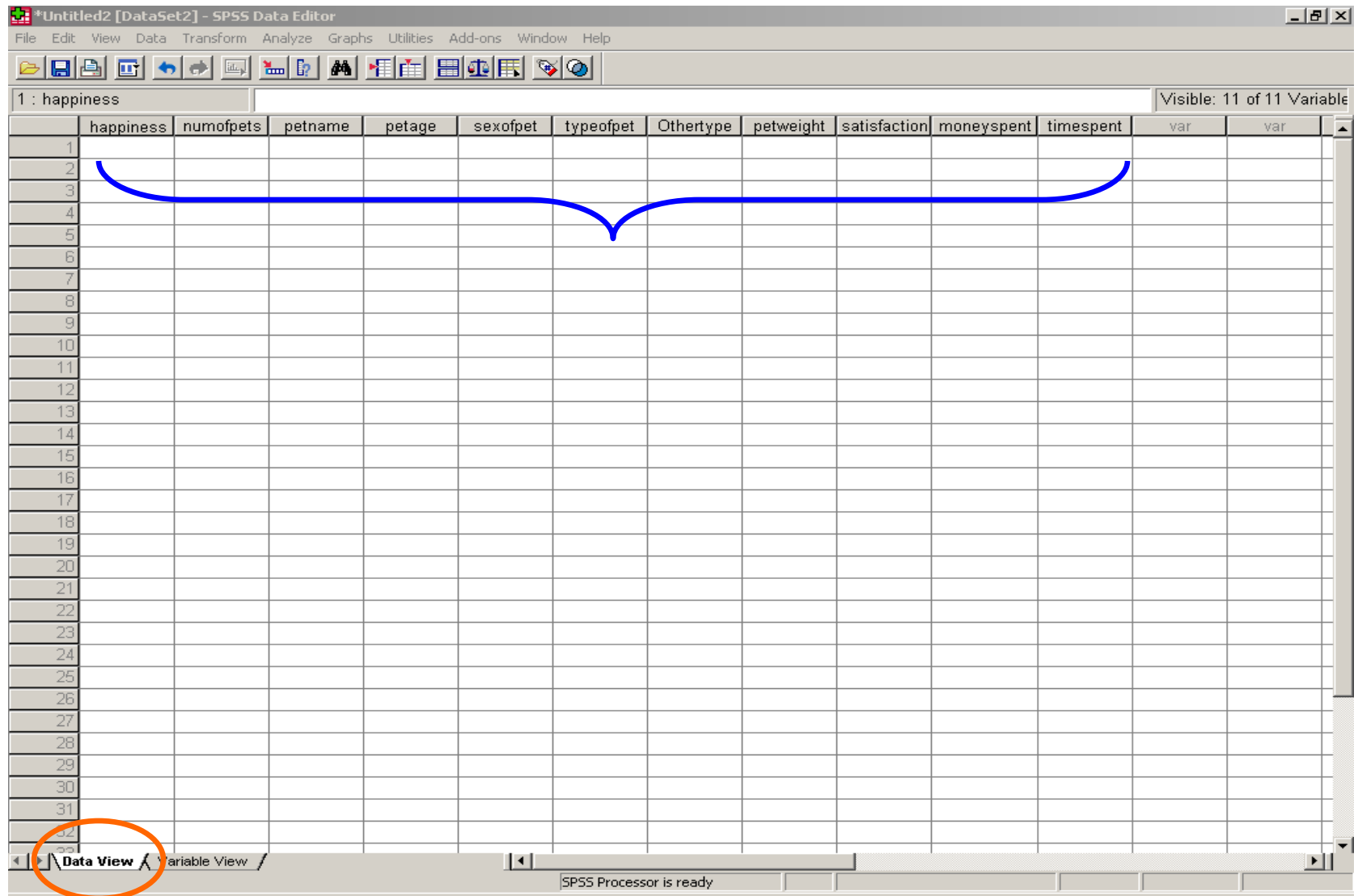
SPSS Data Editor interface showing variable definitions for a dataset named "DataSet2". The variables are defined in the following table:

	Name	Type	Width	Decimals	Label	Values	Missing	Columns	Align	Measure
1	happiness	Numeric	8	0	Average level of happiness on a scal	None	None	8	Right	Scale
2	numofpets	Numeric	8	0	Number of pets owned	None	None	8	Right	Scale
3	petname	String	25	0	Name of the pet you have owned the	None	None	8	Left	Nominal
4	petage	Numeric	8	1	Age of pet	None	None	8	Right	Scale
5	sexofpet	Numeric	8	0	Sex of pet	{1, Male}...	None	8	Right	Nominal
6	typeofpet	Numeric	8	0	Type of animal	{1, Dog}...	None	8	Right	Nominal
7	Other type	String	50	0	Other type of pet	None	None	8	Left	Nominal
8	petweight	Numeric	8	1	Weight of pet	None	None	8	Right	Scale
9	satisfaction	Numeric	8	0	Level of Satisfaction with owning pet	{1, Very Dissatisfied}.	None	8	Right	Ordinal
10	moneyspent	Dollar	9	2	Amount of money spent on pet per y	None	None	9	Right	Scale
11	timespent	Numeric	8	1	Amount of time spent with pet each	None	None	8	Right	Scale
12										
13										
14										
15										
16										
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34										

SPSS Data Editor interface showing variable definitions for a dataset named "DataSet2". The variables are defined in the following table:

SPSS Processor is ready

Setting Up the Variables

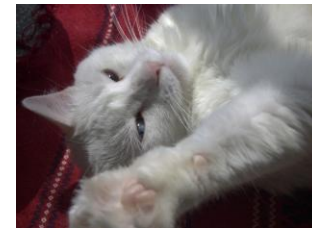


Pet Survey

Entering the Data



Pet Survey



We are very interested in learning more about the pets of students, faculty, and staff at the University of Florida! Please take a few minutes to fill out the survey below. If you do not have a pet, please feel free to imagine a “fantasy” pet and answer the questions with fantasy data.

1. Please circle your average level of happiness on a scale of 1 (extremely unhappy) to 10 (extremely happy))

(extremely unhappy) 1 2 3 4 5 6 **7** 8 9 10 (extremely happy)

2. How many pets do you own? _____ **3** _____ pets

3. What is the name of the pet you have owned the longest (or the name of your fantasy pet)? _____ **Whiskers** _____

The next set of questions will apply to the pet you have owned for the longest amount of time (or your fantasy pet).

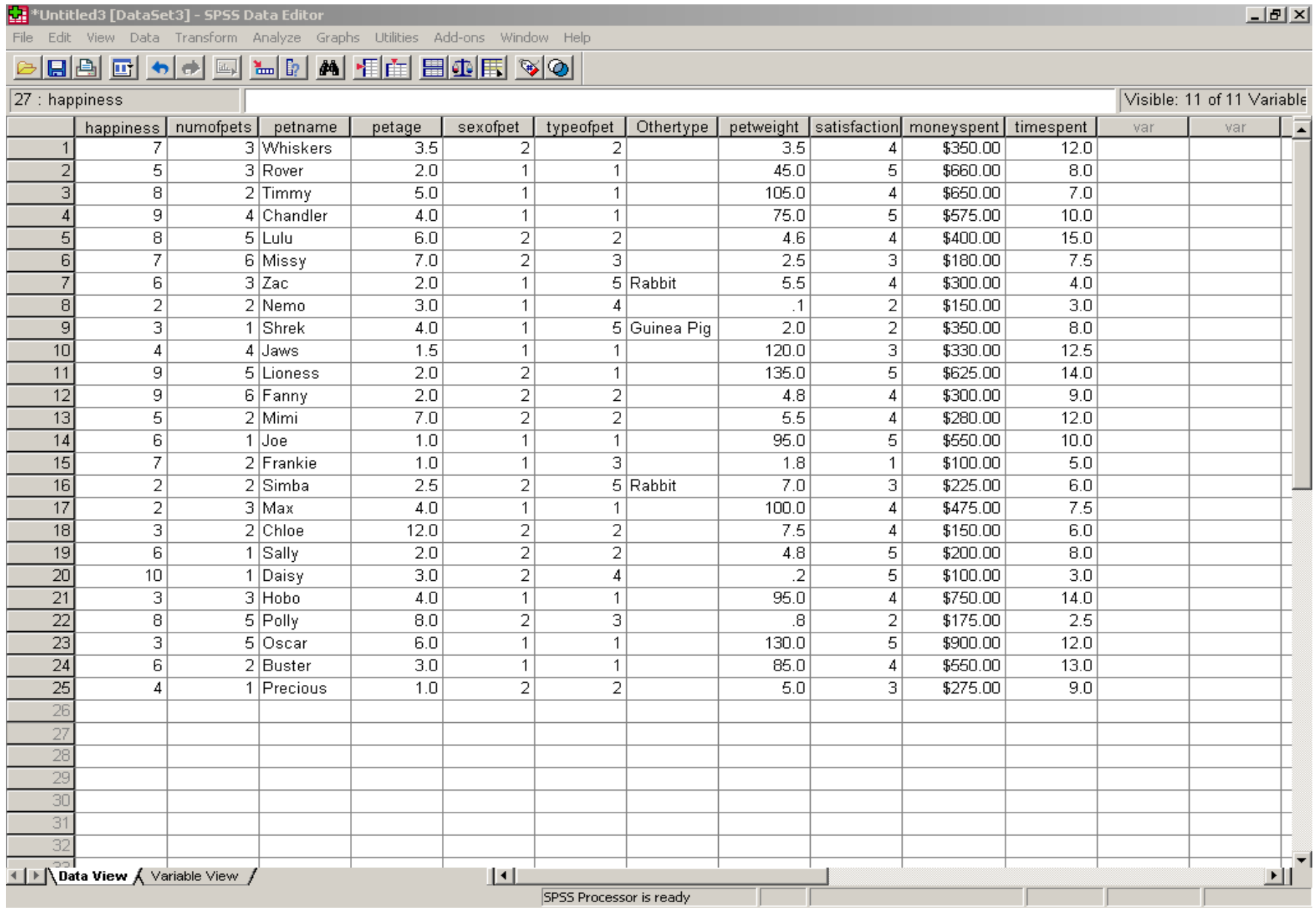
4. How old is this pet? _____ **3.5** _____ years

Entering Data

- Click on the **Data View** Tab at the bottom left of the Data Editor Screen
 - Type 7 in the first line under the happiness Column
 - Tab over to the numofpets Column and type 3
 - Tab over to the petname Column and type Whiskers
 - Tab over to the petage Column and type 3.5
 - Tab over to the sexofpet Column and type 2
 - Tab over to the typeofpet Column and type 2
 - Skip Othertype Column

Entering Data (cont'd)

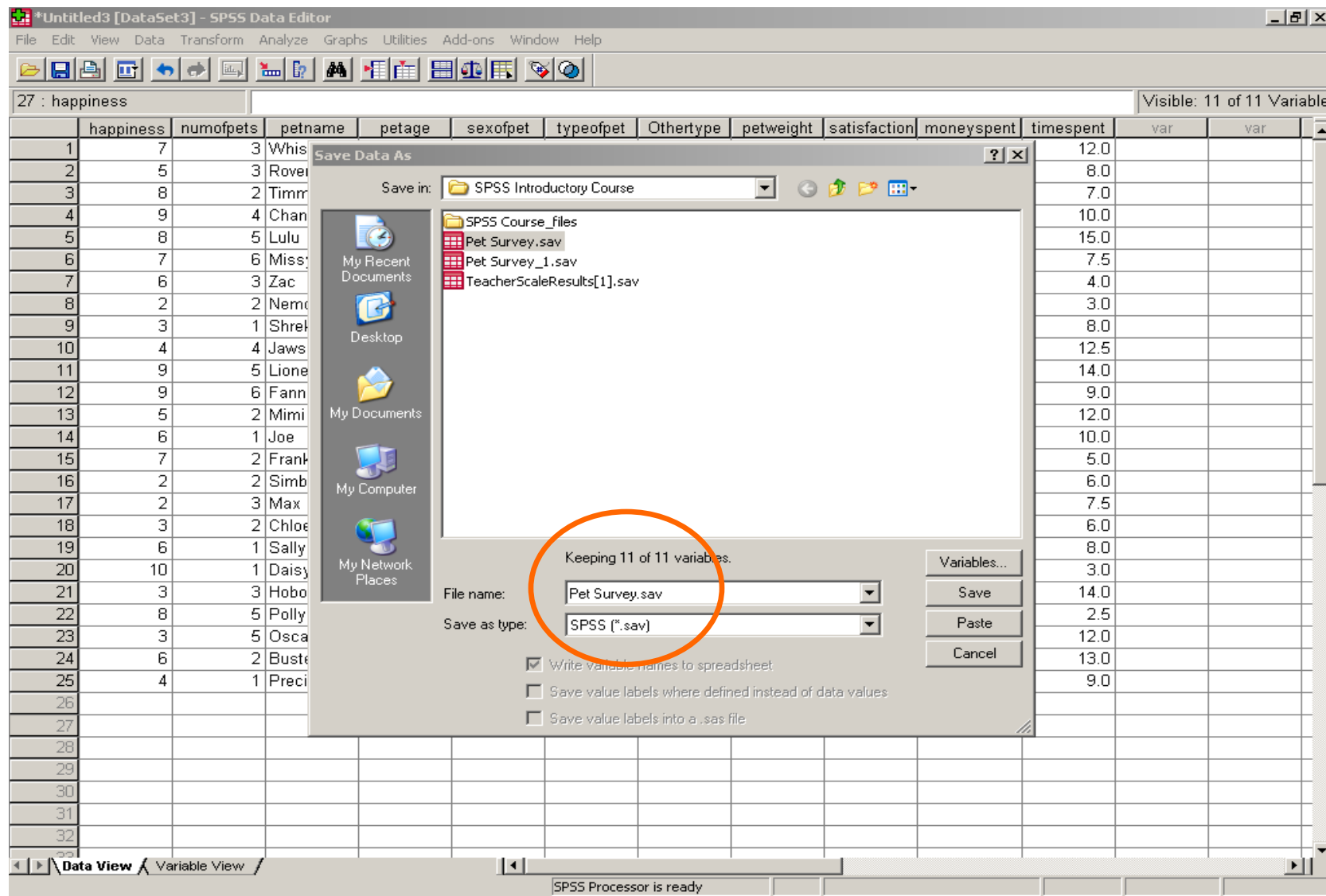
- Tab over to the petweight Column and type 3.5
 - Tab over to the satisfaction Column and type 4
 - Tab over to the moneyspent Column and type 350
 - Tab over to the timespent Column and type 12
-
- Now practice entering the data from the other surveys as well



Saving Data

- To Save all the data from the surveys
 - Go to File > Save As
 - Choose a file location
 - Type In **Pet Survey**
 - SPSS saves the file as **Pet Survey.sav**
 - Select Save

Saving Data



Session 4: Importing Data into SPSS

Importing an Excel File

Microsoft Excel - Pet Survey.xls

Type a question for help

File Edit View Insert Format Tools Data Window StatsDirect Help

Arial 10 B I U

Reply with Changes... End Review...

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
	happiness	numofpets	petname	petage	sexofpet	typeofpet	Othertype	petweight	satisfaction	moneyspent	timespent			
1	7	3	Whiskers	3.5	2	2		3.5	4	\$350.00	12.0			
2	5	3	Rover	2.0	1	1		45.0	5	\$660.00	8.0			
3	8	2	Timmy	5.0	1	1		105.0	4	\$650.00	7.0			
4	9	4	Chandler	4.0	1	1		75.0	5	\$575.00	10.0			
5	8	5	Lulu	6.0	2	2		4.6	4	\$400.00	15.0			
6	7	6	Missy	7.0	2	3		2.5	3	\$180.00	7.5			
7	6	3	Zac	2.0	1	5	Rabbit	5.5	4	\$300.00	4.0			
8	2	2	Nemo	3.0	1	4		0.1	2	\$150.00	3.0			
9	3	1	Shrek	4.0	1	5	Guinea Pig	2.0	2	\$350.00	8.0			
10	4	4	Jaws	1.5	1	1		120.0	3	\$330.00	12.5			
11	9	5	Lioness	2.0	2	1		135.0	5	\$625.00	14.0			
12	9	6	Fanny	2.0	2	2		4.8	4	\$300.00	9.0			
13	5	2	Mimi	7.0	2	2		5.5	4	\$280.00	12.0			
14	6	1	Joe	1.0	1	1		95.0	5	\$550.00	10.0			
15	7	2	Frankie	1.0	1	3		1.8	1	\$100.00	5.0			
16	2	2	Simba	2.5	2	5	Rabbit	7.0	3	\$225.00	6.0			
17	2	3	Max	4.0	1	1		100.0	4	\$475.00	7.5			
18	3	2	Chloe	12.0	2	2		7.5	4	\$150.00	6.0			
19	6	1	Sally	2.0	2	2		4.8	5	\$200.00	8.0			
20	10	1	Daisy	3.0	2	4		0.2	5	\$100.00	3.0			
21	3	3	Hobo	4.0	1	1		95.0	4	\$750.00	14.0			
22	8	5	Polly	8.0	2	3		0.8	2	\$175.00	2.5			
23	3	5	Oscar	6.0	1	1		130.0	5	\$900.00	12.0			
24	6	2	Buster	3.0	1	1		85.0	4	\$550.00	13.0			
25	4	1	Precious	1.0	2	2		5.0	3	\$275.00	9.0			
26														
27														
28														
29														
30														
31														
32														
33														
34														

Pet Survey

Draw AutoShapes

Ready

Importing an Excel File

- Select **File > Open > Data**
- Next, select the folder where the file is located via **Look in:**
- Change file type to **Excel (*.xls)**
- Select the name of the file and **click Open**
- An Excel Data Source Dialogue Box will open
 - Select box to read variables names from the first row, if the first line of the Excel spreadsheet lists the header names
 - Verify the data range
- Select **OK**
- Save File as a **SPSS (*.sav)** file

Untitled1 [DataSet0] - SPSS Data Editor

File Edit View Data Transform Analyze Graphs Utilities Add-ons Window Help



1 :

Visible:

	var	var	var	var	var	var	var	var	var	var	var	var
1												
2												
3												
4												
5												
6												
7												
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22												
23												
24												
25												
26												

Open Data

Look in: SPSS Introductory Course

SPSS Course_files
Pet Survey.sav
TeacherScaleResults[1].sav

SPSS (*.sav)
SPSS/PC+ (*.sys)
Systat (*.syd)
Systat (*.sys)
SPSS Portable (*.por)
Excel (*.xls)
Lotus (*.w*)
SYLK (*.slk)
dBase (*.dbf)
SAS Long File Name (*.sas7bdat)
SAS Short File Name (*.sd7)
SAS v6 for Windows (*.sd2)
SAS v6 for Unix (*.ssd01)
SAS Transport (*.xpt)
Stata (*.dta)
Text (*.txt)
Data (*.dat)
All Files (*.*)
SPSS (*.sav)

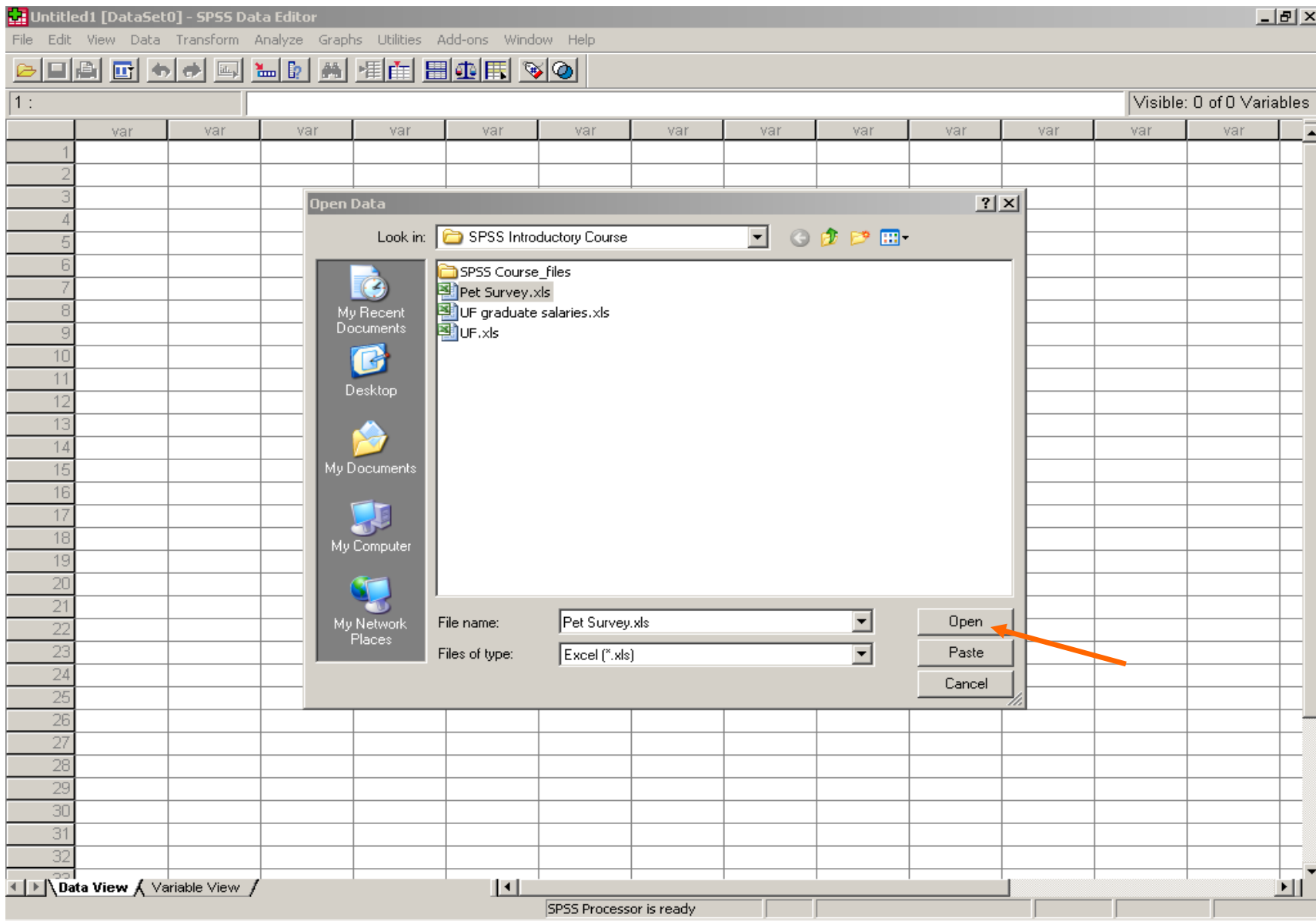
File name:

Files of type:

Open

Paste

Cancel



Untitled1 [DataSet0] - SPSS Data Editor

File Edit View Data Transform Analyze Graphs Utilities Add-ons Window Help

1 :

	var	var	var	var	var	var	var	var	var	var	var	var	Visible
1													
2													
3													
4													
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23													
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25													

Opening Excel Data Source

C:\Documents and Settings\Grace-Anne Jackman\My Documents\University of Florida_Spring 2008\SPSS Introductory Course\Pet Survey.xls

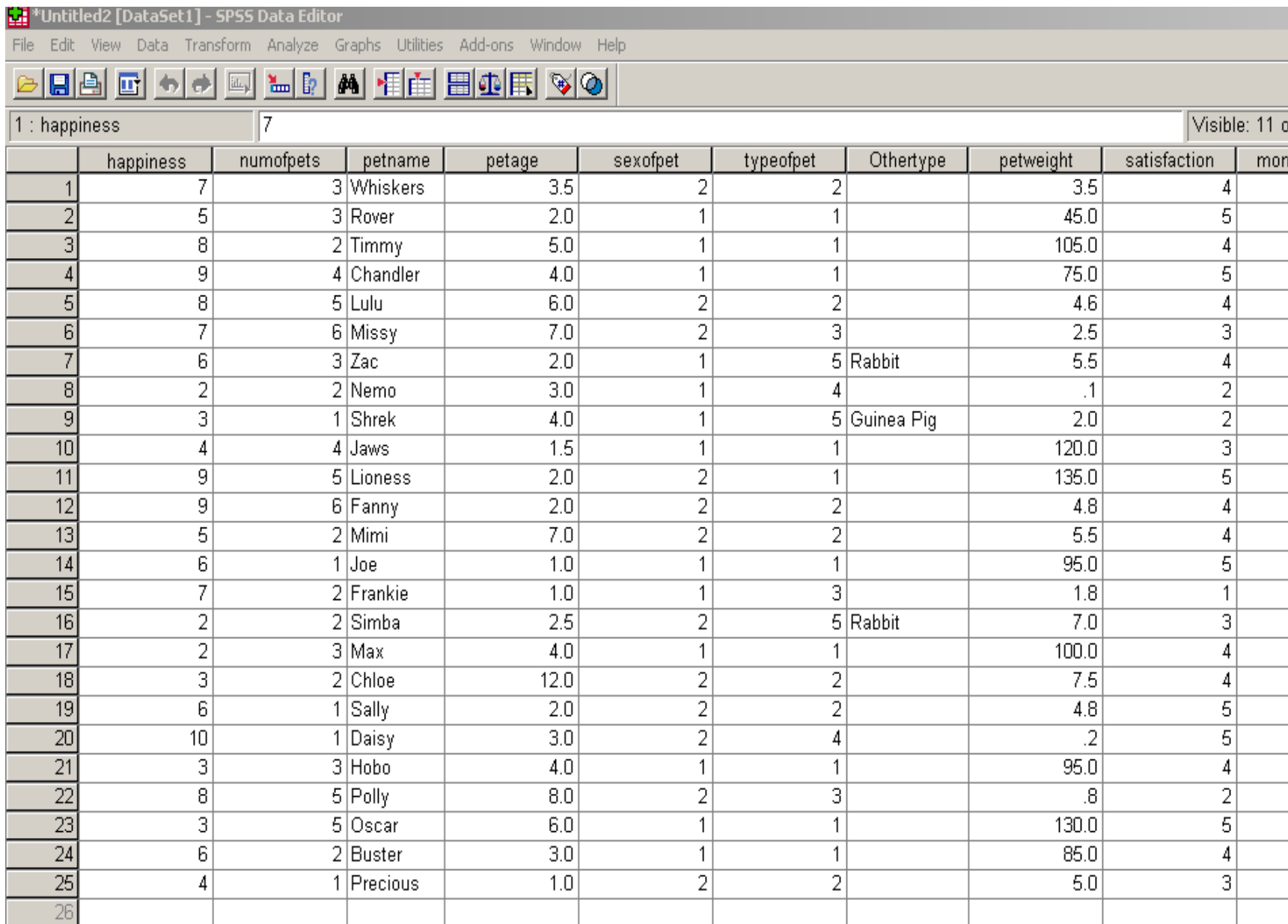
☒ Read variable names from the first row of data.

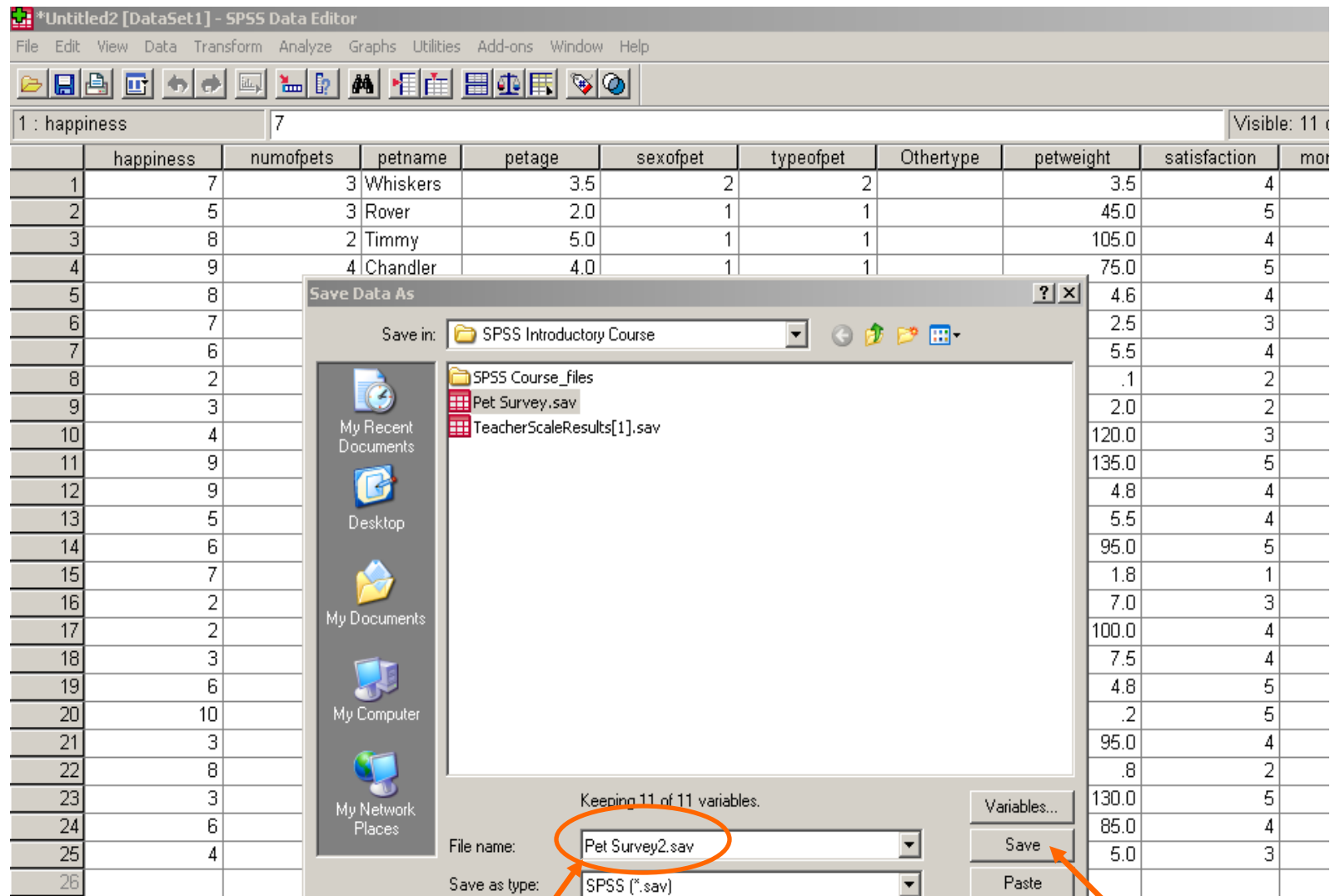
Worksheet: Pet Survey [A1:K26]

Range:

Maximum width for string columns: 32767

OK Cancel Help





Type In File name

Select

Session 5:

Simple Data Manipulations

Recoding Data

- Transform and recode the quantitative variable ***petweight*** into an ordinal variable with three new categories
 - Small
 - Medium
 - Large

Recoding Data

- Select **Transform > Recode Into a Different Variables** in order to create a new variable
 - Choosing Recoding Into Same Variables will overwrite the existing data in petweight. This is not the recommended action.
- A “**Recode Into a Different Variables**” dialog box will appear

Pet Survey.sav [DataSet1] - SPSS Data Editor

File Edit View Data Transform Analyze Graphs Utilities Add-ons Window Help



Compute Variable...
Count Values within Cases...



1 : happiness

	happiness
1	7
2	5
3	8
4	9
5	8
6	7
7	6
8	2
9	3
10	4
11	9
12	9
13	5
14	6
15	7
16	2
17	2
18	3
19	6
20	10
21	3
22	8
23	3
24	6
25	4

Recode into Same Variables...
Recode into Different Variables...
Automatic Recode...
Visual Binning...
Rank Cases...
Date and Time Wizard...
Create Time Series...
Replace Missing Values...
Random Number Generators...
Run Pending Transforms Ctrl+G

hofpet	typeofpet	Othertype	petweight	satisfaction	moneyspent	timespent
2	2		3.5	4	\$350.00	12.0
1	1		45.0	5	\$660.00	8.0
1	1		105.0	4	\$650.00	7.0
1	1		75.0	5	\$575.00	10.0
2	2		4.6	4	\$400.00	15.0
2	3		2.5	3	\$180.00	7.5
1	5	Rabbit	5.5	4	\$300.00	4.0
1	4		.1	2	\$150.00	3.0
1	5	Guinea Pig	2.0	2	\$350.00	8.0
1	1		120.0	3	\$330.00	12.5
2	1		135.0	5	\$625.00	14.0
2	2		4.8	4	\$300.00	9.0
2	2		5.5	4	\$280.00	12.0
1	1		95.0	5	\$550.00	10.0
2	3		1.8	1	\$100.00	5.0
2	5	Rabbit	7.0	3	\$225.00	6.0
1	1		100.0	4	\$475.00	7.5
2	2		7.5	4	\$150.00	6.0
2	2		4.8	5	\$200.00	8.0
1	4		.2	5	\$100.00	3.0
1	1		95.0	4	\$750.00	14.0
2	3		.8	2	\$175.00	2.5
1	1		130.0	5	\$900.00	12.0
1	1		85.0	4	\$550.00	13.0
2	2		5.0	3	\$275.00	9.0

Recoding Data

- Highlight the variable ***petweight*** and use the arrow to move that variable into the *Input Variable → Output Variable* box.
- In the ***Name*** box under the ***Output Variable*** section, type the new variable name ***petsize*** and type the Variable Label ***Size of pet***, then Click the **CHANGE** button
- Select the Old and New Values Button. This tell SPSS how to recode the data into our 3 new categories
- Another Dialog window will appear



1 :

	happiness	numofpets	petname	petage	sexofpet	typeofpet	Othertype	petweight	satisfaction	moneyspent	timespent
1	7	3	Whiskers	3.5	2	2		3.5	4	\$350.00	12.0
2	5	3									8.0
3	8	2									7.0
4	9	4									10.0
5	8	5									15.0
6	7	6									7.5
7	6	3									4.0
8	2	2									3.0
9	3	1									8.0
10	4	4									12.5
11	9	5									14.0
12	9	6									9.0
13	5	2									12.0
14	6	1									10.0
15	7	2									5.0
16	2	2									6.0
17	2	3									7.5
18	3	2	Chloe	12.0	2	2		7.5	4	\$150.00	6.0
19	6	1	Sally	2.0	2	2		4.8	5	\$200.00	8.0
20	10	1	Daisy	3.0	2	4		.2	5	\$100.00	3.0
21	3	3	Hobo	4.0	1	1		95.0	4	\$750.00	14.0
22	8	5	Polly	8.0	2	3		.8	2	\$175.00	2.5
23	3	5	Oscar	6.0	1	1		130.0	5	\$900.00	12.0
24	6	2	Buster	3.0	1	1		85.0	4	\$550.00	13.0
25	4	1	Precious	1.0	2	2		5.0	3	\$275.00	9.0

Recode into Different Variables

Numeric Variable -> Output Variable:

petweight -> petsize

Output Variable

Name:

petsize

Label:

Size of pet

Change

Old and New Values...

If... (optional case selection condition)

OK

Paste

Reset

Cancel

Help

Recoding Data

- Select ***Range...through***
 - Type in **0.0** in the top box and **5.0** in the box under *through*
 - Type **1** in the Value box under the New Value section, then click **ADD**
- Select ***Range...through***
 - Type in **5.1** in the top box and **20.0** in the box under *through*
 - Type **2** in the Value box under the New Value section, then click **ADD**
- Select ***Range, value through HIGHEST***
 - Type in **20.1**
 - Type **3** in the Value box under the New Value section, then click **ADD**
- Next, select **CONTINUE**, then click **OK**

***Pet Survey.sav [DataSet1] - SPSS Data Editor**

File Edit View Data Transform Analyze Graphs Utilities Add-ons Window Help

	Name	Type	Width	Decimals	Label	Values	Missing	Columns
1	happiness	Numeric	8	0	Average level o	None	None	8
2	numofpets	Numeric	8	0	Number of pet	None	None	8
3	petname	String	25	0	Name of the p	None	None	8
4	petage	Numeric	8	1	Age of pet	None	None	8
5	sexofpet	Numeric	8	0	Sex of pet	{1, Male}...	None	8
6	typeofpet	Numeric	8	0	Type of animal	{1, Dog}	None	8
7	Other							8
8	petw							8
9	satis							8
10	mon							9
11	time							8
12	pets							10
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								

Value Labels

Value Labels

Value: 3

Label: Large

Add

Change

Remove

1.00 = "Small"

2.00 = "Medium"

OK

Cancel

Help

***Pet Survey.sav [DataSet1] - SPSS Data Editor**

File Edit View Data Transform Analyze Graphs Utilities Add-ons Window Help

1 :

	happiness	numofpets	petname	petage	sexofpet	typeofpet	Othertype	petweight	satisfaction	moneyspent	timespent
1	7	3	Whiskers	3.5	2	2		3.5	4	\$350.00	12.0
2	5	3									8.0
3	8	2									7.0
4	9	4									10.0
5	8	5									15.0
6	7	6									7.5
7	6	3									4.0
8	2	2									3.0
9	3	1									8.0
10	4	4									12.5
11	9	5									14.0
12	9	6									9.0
13	5	2									12.0
14	6	1									10.0
15	7	2									5.0
16	2	2									6.0
17	2	3									7.5
18	3	2									6.0
19	6	1									8.0
20	10	1									3.0
21	3	3									14.0
22	8	5									2.5
23	3	5									12.0
24	6	2	Buster	3.0	1	1		85.0	4	\$550.00	13.0
25	4	1	Precious	1.0	2	2		5.0	3	\$275.00	9.0

Recode into Different Variables

Numeric Variable -> Output Variable:

Recode into Different Variables: Old and New Values

Old Value

☐ Value:

☐ System-missing

☐ System- or user-missing

☐ Range:

through

☐ Range, LOWEST through value:

☒ Range, value through HIGHEST:

20.1

☐ All other values

New Value

☒ Value: 3

☐ System-missing

☐ Copy old value(s)

Old -> New:

Add

Change

Remove

0.0 thru 5.0 -> 1

5.1 thru 20.0 -> 2

☐ Output variables are strings Width: 8

☐ Convert numeric strings to numbers ('5'>5)

Continue Cancel Help

*Pet Survey.sav [DataSet1] - SPSS Data Editor

File Edit View Data Transform Analyze Graphs Utilities Add-ons Window Help



1 :

	happiness	numofpets	petname	petage	sexofpet	typeofpet	Othertype	petweight	satisfaction	moneyspent	timespent
1	7	3	Whiskers	3.5	2	2		3.5	4	\$350.00	12.0
2									5	\$660.00	8.0
3									4	\$650.00	7.0
4									5	\$575.00	10.0
5									4	\$400.00	15.0
6									3	\$180.00	7.5
7									4	\$300.00	4.0
8									2	\$150.00	3.0
9									2	\$350.00	8.0
10									3	\$330.00	12.5
11									5	\$625.00	14.0
12									4	\$300.00	9.0
13									4	\$280.00	12.0
14									5	\$550.00	10.0
15									1	\$100.00	5.0
16									3	\$225.00	6.0
17									4	\$475.00	7.5
18	3	2	Chloe	12.0	2	2		7.5	4	\$150.00	6.0
19	6	1	Sally	2.0	2	2		4.8	5	\$200.00	8.0
20	10	1	Daisy	3.0	2	4		.2	5	\$100.00	3.0
21	3	3	Hobo	4.0	1	1		95.0	4	\$750.00	14.0
22	8	5	Polly	8.0	2	3		.8	2	\$175.00	2.5
23	3	5	Oscar	6.0	1	1		130.0	5	\$900.00	12.0
24	6	2	Buster	3.0	1	1		85.0	4	\$550.00	13.0
25	4	1	Precious	1.0	2	2		5.0	3	\$275.00	9.0

Recode into Different Variables

Numeric Variable -> Output Variable:

petweight -> petsize

Output Variable

Name:

Label:

Change

Old and New Values...

If... (optional case selection condition)

OK Paste Reset Cancel Help

In Data View, the new variable, ***petsize***, will now appear as the last column in the variables

*Pet Survey.sav [DataSet1] - SPSS Data Editor

File Edit View Data Transform Analyze Graphs Utilities Add-ons Window Help

1 : petsize 1 Visible: 12 of 26

	happiness	numofpets	petname	petage	sexofpet	typeofpet	Othertype	petweight	satisfaction	moneyspent	timespent	petsize
1	7	3	Whiskers	3.5	2	2		3.5	4	\$350.00	12.0	1.00
2	5	3	Rover	2.0	1	1		45.0	5	\$660.00	8.0	3.00
3	8	2	Timmy	5.0	1	1		105.0	4	\$650.00	7.0	3.00
4	9	4	Chandler	4.0	1	1		75.0	5	\$575.00	10.0	3.00
5	8	5	Lulu	6.0	2	2		4.6	4	\$400.00	15.0	1.00
6	7	6	Missy	7.0	2	3		2.5	3	\$180.00	7.5	1.00
7	6	3	Zac	2.0	1	5	Rabbit	5.5	4	\$300.00	4.0	2.00
8	2	2	Nemo	3.0	1	4		.1	2	\$150.00	3.0	1.00
9	3	1	Shrek	4.0	1	5	Guinea Pig	2.0	2	\$350.00	8.0	1.00
10	4	4	Jaws	1.5	1	1		120.0	3	\$330.00	12.5	3.00
11	9	5	Lioness	2.0	2	1		135.0	5	\$625.00	14.0	3.00
12	9	6	Fanny	2.0	2	2		4.8	4	\$300.00	9.0	1.00
13	5	2	Mimi	7.0	2	2		5.5	4	\$280.00	12.0	2.00
14	6	1	Joe	1.0	1	1		95.0	5	\$550.00	10.0	3.00
15	7	2	Frankie	1.0	1	3		1.8	1	\$100.00	5.0	1.00
16	2	2	Simba	2.5	2	5	Rabbit	7.0	3	\$225.00	6.0	2.00
17	2	3	Max	4.0	1	1		100.0	4	\$475.00	7.5	3.00
18	3	2	Chloe	12.0	2	2		7.5	4	\$150.00	6.0	2.00
19	6	1	Sally	2.0	2	2		4.8	5	\$200.00	8.0	1.00
20	10	1	Daisy	3.0	2	4		.2	5	\$100.00	3.0	1.00
21	3	3	Hobo	4.0	1	1		95.0	4	\$750.00	14.0	3.00
22	8	5	Polly	8.0	2	3		.8	2	\$175.00	2.5	1.00
23	3	5	Oscar	6.0	1	1		130.0	5	\$900.00	12.0	3.00
24	6	2	Buster	3.0	1	1		85.0	4	\$550.00	13.0	3.00
25	4	1	Precious	1.0	2	2		5.0	3	\$275.00	9.0	1.00

Recoding Data

- Click on the bottom left of the screen to switch to Variable View and define the values for this new variable
 - Type **1** in the *Value* box and **Small** in the *Label* box, click **ADD**
 - Type **2** in the *Value* box and **Medium** in the *Label* box, click **ADD**
 - Type **3** in the *Value* box and **Large** in the *Label* box, click **ADD**
 - Select **OK**
- Change to the Data View Window to verify whether these changes have been made.
- Resave the SPSS file

Pet Survey.sav [DataSet7] - SPSS Data Editor

File Edit View Data Transform Analyze Graphs Utilities Add-ons Window Help

Value Labels

Value Labels

Value:

Label:

Add

Change

Remove

1 = "Small"
2 = "Medium"
3 = "Large"

OK

Cancel

Help

	Name	Type	Width	Decimals	Label	Values	Missing	Columns	Align	Measure
1	happiness	Numeric	8	0	Average level o	None	None	8	Right	Scale
2	numofpets	Numeric	8	0	Number of pet	None	None	8	Right	Scale
3	petname	String	25	0	Name of the p	None	None	8	Left	Nominal
4	petage	Numeric	8	1	Age of pet	None	None	8	Right	Scale
5	sexofpet	Numeric	8	0	Sex of pet	{1, Male}...	None	8	Right	Scale
6	typeofpet	Numeric	8	0	Type of animal	{1, Dog}...	None	8	Right	Scale
7	Other type	String	50	0	Other type of p	None	None	8	Left	Nominal
8	petweight	Numeric	8	1	Weight of pet	None	None	8	Right	Scale
9	satisfaction	Numeric	8	0	Level of Satisf	{1, Very Dissat	None	8	Right	Scale
10	moneyspen	Dollar	9	2	Amount of mo	None	None	9	Right	Scale
11	timespent	Numeric	8	1	Amount of tim	None	None	8	Right	Scale
12	petsize	Numeric	8	0	Size of pet	{1, Small}... ..	None	8	Right	Scale
13										
14										
15										
16										
17										
18										
19										
20										
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31										
32										
33										
34										

Data View Variable View

SPSS Processor is ready

Pet Survey_1.sav [DataSet3] - SPSS Data Editor

File Edit View Data Transform Analyze Graphs Utilities Add-ons Window Help

1 : happiness 7 Visible: 12 of 12 Variable

	happiness	numofpets	petname	petage	sexofpet	typeofpet	Other type	petweight	satisfaction	moneyspent	timespent	petsize	var
1	7	3	Whiskers	3.5	Female	Cat		3.5	Satisfied	\$350.00	12.0	Small	
2	5	3	Rover	2.0	Male	Dog		45.0	Very Satisfi	\$660.00	8.0	Large	
3	8	2	Timmy	5.0	Male	Dog		105.0	Satisfied	\$650.00	7.0	Large	
4	9	4	Chandler	4.0	Male	Dog		75.0	Very Satisfi	\$575.00	10.0	Large	
5	8	5	Lulu	6.0	Female	Cat		4.6	Satisfied	\$400.00	15.0	Small	
6	7	6	Missy	7.0	Female	Bird		2.5	Neutral	\$180.00	7.5	Small	
7	6	3	Zac	2.0	Male	Other	Rabbit	5.5	Satisfied	\$300.00	4.0	Medium	
8	2	2	Nemo	3.0	Male	Fish		.1	Dissatisfied	\$150.00	3.0	Small	
9	3	1	Shrek	4.0	Male	Other	Guinea Pig	2.0	Dissatisfied	\$350.00	8.0	Small	
10	4	4	Jaws	1.5	Male	Dog		120.0	Neutral	\$330.00	12.5	Large	
11	9	5	Lioness	2.0	Female	Dog		135.0	Very Satisfi	\$625.00	14.0	Large	
12	9	6	Fanny	2.0	Female	Cat		4.8	Satisfied	\$300.00	9.0	Small	
13	5	2	Mimi	7.0	Female	Cat		5.5	Satisfied	\$280.00	12.0	Medium	
14	6	1	Joe	1.0	Male	Dog		95.0	Very Satisfi	\$550.00	10.0	Large	
15	7	2	Frankie	1.0	Male	Bird		1.8	Very Dissa	\$100.00	5.0	Small	
16	2	2	Simba	2.5	Female	Other	Rabbit	7.0	Neutral	\$225.00	6.0	Medium	
17	2	3	Max	4.0	Male	Dog		100.0	Satisfied	\$475.00	7.5	Large	
18	3	2	Chloe	12.0	Female	Cat		7.5	Satisfied	\$150.00	6.0	Medium	
19	6	1	Sally	2.0	Female	Cat		4.8	Very Satisfi	\$200.00	8.0	Small	
20	10	1	Daisy	3.0	Female	Fish		.2	Very Satisfi	\$100.00	3.0	Small	
21	3	3	Hobo	4.0	Male	Dog		95.0	Satisfied	\$750.00	14.0	Large	
22	8	5	Polly	8.0	Female	Bird		.8	Dissatisfied	\$175.00	2.5	Small	
23	3	5	Oscar	6.0	Male	Dog		130.0	Very Satisfi	\$900.00	12.0	Large	
24	6	2	Buster	3.0	Male	Dog		85.0	Satisfied	\$550.00	13.0	Large	
25	4	1	Precious	1.0	Female	Cat		5.0	Neutral	\$275.00	9.0	Small	
26													
27													
28													
29													
30													
31													
32													
33													

Data View Variable View

SPSS Processor is ready

Session 6:

Performing Simple Descriptive Statistics

***The type of data determines
the choice of statistical
analysis***

Types of Variables

Categorical Variables

Variables for which the responses are divided into non-overlapping categories or groups

Nominal	Having unordered categories
Ordinal	Having categories ordered by size from small to large or visa versa
Binary	Having only two categories

- ✓ Counts/frequencies
- ✓ Mode
- ✓ Proportions
- ✓ Bar Charts
- ✓ Pie Charts

Numerical Variables

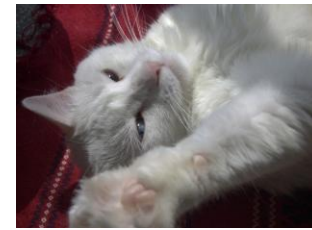
A variable for which the responses are meaningful numbers (i.e. you can add and subtract them)

Discrete	Having discrete, countable values, usually with no intermediate values.
Continuous	Having an infinite number of possible values falling between an interval or any two observed values

- ✓ Mean, Mode, Median
- ✓ Range, Variance, Std Deviation,
- ✓ Histograms
- ✓ Box Plot



Pet Survey



Question #	Name	Variable Type
Q1	happiness	➤ <i>Numerical continuous</i>
Q2	numofpets	➤ <i>Numerical discrete</i>
Q3	petname	➤ <i>Alphanumeric/text</i>
Q4	petage	➤ <i>Numerical continuous</i>
Q5	sexofpet	➤ <i>Binary</i>
Q6	typeofpet	➤ <i>Categorical nominal</i>
Q7	petweight	➤ <i>Numerical continuous</i>
Q8	satisfaction	➤ <i>Categorical ordinal</i>
Q9	moneyspent	➤ <i>Numerical continuous</i>
Q10	timespent	➤ <i>Numerical continuous</i>
Q11	petsize	➤ <i>Categorical ordinal</i>

Categorical Variables

- Select **Analyze > Descriptive Statistics > Frequencies**
- A **Frequencies dialog box** will appear
- Move the categorical variables (***sexofpet***, ***satisfaction*** and ***petsize***), using the arrow into the **Variables** choice box
- Click on **Statistics**

Pet Survey.sav [DataSet10] - SPSS Data Editor

File Edit View Data Transform Analyze Graphs Utilities Add-ons Window Help



28 : petage

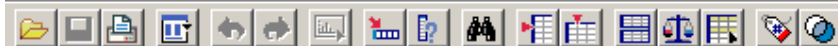
	happiness	numofpet:			pet	Othertype	petweight	satisfaction	moneyspent	timespent	petsize	
1	7		General Linear Model	Explore...	2		3.5	4	\$350.00	12.0	1	
2	5		Generalized Linear Models	Crosstabs...	1		45.0	5	\$660.00	8.0	3	
3	8		Mixed Models	Ratio...	1		105.0	4	\$650.00	7.0	3	
4	9		Correlate	P-P Plots...	1		75.0	5	\$575.00	10.0	3	
5	8		Regression	Q-Q Plots...	1		2	4	\$400.00	15.0	1	
6	7		Loglinear		2		4.6	4	\$180.00	7.5	1	
7	6		Classify		2		2.5	3	\$300.00	4.0	1	
8	2		Data Reduction		1	5	Rabbit	5.5	4	\$150.00	3.0	1
9	3		Scale		1	4		.1	2	\$350.00	8.0	1
10	4		Nonparametric Tests		1	5	Guinea Pig	2.0	2	\$330.00	12.5	3
11	9		Time Series		1	1		120.0	3	\$625.00	14.0	3
12	9		Survival		2	1		135.0	5	\$300.00	9.0	1
13	5	2	Multiple Response		2	2		4.8	4	\$280.00	12.0	1
14	6	1	Quality Control		1	1		95.0	5	\$100.00	5.0	1
15	7	2	ROC Curve...		2	2		7.0	3	\$225.00	6.0	1
16	2	2			2	5	Rabbit	7.0	4	\$475.00	7.5	3
17	2	3			2	2		7.5	4	\$150.00	6.0	1
18	3	2			2	2		4.8	5	\$200.00	8.0	1
19	6	1			2	4		.2	5	\$100.00	3.0	1
20	10	1			1	1		95.0	4	\$750.00	14.0	3
21	3	3			2	3		.8	2	\$175.00	2.5	1
22	8	5			1	1		130.0	5	\$900.00	12.0	3
23	3	5			1	1		85.0	4	\$550.00	13.0	3
24	6	2			2	2		5.0	3	\$275.00	9.0	1
25	4	1										

Visible: 12

- Reports
 - Descriptive Statistics
 - Frequencies...
 - Descriptives...
 - Explore...
 - Crosstabs...
 - Ratio...
 - P-P Plots...
 - Q-Q Plots...
 - Compare Means
 - General Linear Model
 - Generalized Linear Models
 - Mixed Models
 - Correlate
 - Regression
 - Loglinear
 - Classify
 - Data Reduction
 - Scale
 - Nonparametric Tests
 - Time Series
 - Survival
 - Multiple Response
 - Quality Control
 - ROC Curve...

Pet Survey.sav [DataSet10] - SPSS Data Editor

File Edit View Data Transform Analyze Graphs Utilities Add-ons Window Help



28 : petage

Visible: 12

	happiness	numofpets	petname	petage	sexofpet	typeofpet	Othertype	petweight	satisfaction	moneyspent	timespent	petsize
1								3.5	4	\$350.00	12.0	1
2								45.0	5	\$660.00	8.0	3
3								105.0	4	\$650.00	7.0	3
4								75.0	5	\$575.00	10.0	3
5								4.6	4	\$400.00	15.0	1
6								2.5	3	\$180.00	7.5	1
7							Rabbit	5.5	4	\$300.00	4.0	1
8								.1	2	\$150.00	3.0	1
9							Guinea Pig	2.0	2	\$350.00	8.0	1
10								120.0	3	\$330.00	12.5	3
11								135.0	5	\$625.00	14.0	3
12								4.8	4	\$300.00	9.0	1
13								5.5	4	\$280.00	12.0	1
14								95.0	5	\$550.00	10.0	3
15	7	2	Frankie	1.0	1	3		1.8	1	\$100.00	5.0	1
16	2	2	Simba	2.5	2	5	Rabbit	7.0	3	\$225.00	6.0	1
17	2	3	Max	4.0	1	1		100.0	4	\$475.00	7.5	3
18	3	2	Chloe	12.0	2	2		7.5	4	\$150.00	6.0	1
19	6	1	Sally	2.0	2	2		4.8	5	\$200.00	8.0	1
20	10	1	Daisy	3.0	2	4		.2	5	\$100.00	3.0	1
21	3	3	Hobo	4.0	1	1		95.0	4	\$750.00	14.0	3
22	8	5	Polly	8.0	2	3		.8	2	\$175.00	2.5	1
23	3	5	Oscar	6.0	1	1		130.0	5	\$900.00	12.0	3
24	6	2	Buster	3.0	1	1		85.0	4	\$550.00	13.0	3
25	4	1	Precious	1.0	2	2		5.0	3	\$275.00	9.0	1

Frequencies

Variable(s):

- Sex of pet [sexofpet]
- Size of pet [petsize]

☒ Display frequency tables

Statistics... Charts... Format...

Categorical Variables

- Under *Central Tendency*, select **Mode**, then Select **CONTINUE**
- Select **Charts**. Under *Chart Type*, select **Bar Charts**. Under *Chart Values*, select **Percentages**
- Select **CONTINUE**, then **OK**.



28 : petage

Visible: 12

	happiness	numofpets	petname	petage	sexofpet	typeofpet	Othertype	petweight	satisfaction	moneyspent	timespent	petsize
1								3.5	4	\$350.00	12.0	1
2								45.0	5	\$660.00	8.0	3
3								105.0	4	\$650.00	7.0	3
4								75.0	5	\$575.00	10.0	3
5								4.6	4	\$400.00	15.0	1
6								2.5	3	\$180.00	7.5	1
7							rabbit	5.5	4	\$300.00	4.0	1
8								.1	2	\$150.00	3.0	1
9							guinea Pig	2.0	2	\$350.00	8.0	1
10								120.0	3	\$330.00	12.5	3
11								135.0	5	\$625.00	14.0	3
12								4.8	4	\$300.00	9.0	1
13								5.5	4	\$280.00	12.0	1
14								95.0	5	\$550.00	10.0	3
15								1.8	1	\$100.00	5.0	1
16							rabbit	7.0	3	\$225.00	6.0	1
17								100.0	4	\$475.00	7.5	3
18								7.5	4	\$150.00	6.0	1
19								4.8	5	\$200.00	8.0	1
20	10	1	Daisy	3.0	2	4		.2	5	\$100.00	3.0	1
21	3	3	Hobo	4.0	1	1		95.0	4	\$750.00	14.0	3
22	8	5	Polly	8.0	2	3		.8	2	\$175.00	2.5	1
23	3	5	Oscar	6.0	1	1		130.0	5	\$900.00	12.0	3
24	6	2	Buster	3.0	1	1		85.0	4	\$550.00	13.0	3
25	4	1	Precious	1.0	2	2		5.0	3	\$275.00	9.0	1

Frequencies

Age of pet [petage]

Variable(s):

Frequencies: Statistics

Percentile Values

☐ Quartiles

☐ Cut points for: 10 equal groups

☐ Percentile(s):

Add

Change

Remove

Central Tendency

☐ Mean

☐ Median

☒ Mode

☐ Sum

☐ Values are group midpoints

Dispersion

☐ Std. deviation

☐ Variance

☐ Range

☐ Minimum

☐ Maximum

☐ S.E. mean

Distribution

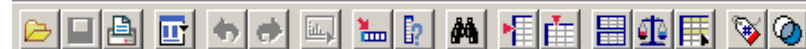
☐ Skewness

☐ Kurtosis

Continue

Cancel

Help



28 : petage

Visible: 12

	happiness	numofpets	petname	petage	sexofpet	typeofpet	Othertype	petweight	satisfaction	moneyspent	timespent	petsize
1								3.5	4	\$350.00	12.0	1
2								45.0	5	\$660.00	8.0	3
3								105.0	4	\$650.00	7.0	3
4								75.0	5	\$575.00	10.0	3
5								4.6	4	\$400.00	15.0	1
6								2.5	3	\$180.00	7.5	1
7							Rabbit	5.5	4	\$300.00	4.0	1
8								.1	2	\$150.00	3.0	1
9							Guinea Pig	2.0	2	\$350.00	8.0	1
10								120.0	3	\$330.00	12.5	3
11								135.0	5	\$625.00	14.0	3
12								4.8	4	\$300.00	9.0	1
13								5.5	4	\$280.00	12.0	1
14								95.0	5	\$550.00	10.0	3
15	7				1	3		1.8	1	\$100.00	5.0	1
16	2				2	5	Rabbit	7.0	3	\$225.00	6.0	1
17	2	3	Max	4.0	1	1		100.0	4	\$475.00	7.5	3
18	3	2	Chloe	12.0	2	2		7.5	4	\$150.00	6.0	1
19	6	1	Sally	2.0	2	2		4.8	5	\$200.00	8.0	1
20	10	1	Daisy	3.0	2	4		.2	5	\$100.00	3.0	1
21	3	3	Hobo	4.0	1	1		95.0	4	\$750.00	14.0	3
22	8	5	Polly	8.0	2	3		.8	2	\$175.00	2.5	1
23	3	5	Oscar	6.0	1	1		130.0	5	\$900.00	12.0	3
24	6	2	Buster	3.0	1	1		85.0	4	\$550.00	13.0	3
25	4	1	Precious	1.0	2	2		5.0	3	\$275.00	9.0	1

Frequencies

Age of pet [petage]

Type of animal [typeofpet]

Other

Weight

Level

Amount

Amount

Display

Variable(s):

Sex of pet [sexofpet]

Frequencies: Charts

Chart Type

☐ None

☒ Bar charts

☐ Pie charts

☐ Histograms:

☐ With normal curve

Chart Values

☐ Frequencies

☒ Percentages

Continue

Cancel

Help

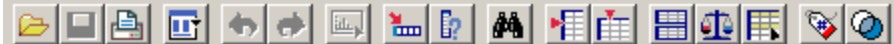
OK

Paste

Reset

Cancel

Help



28 : petage Visible: 12

	happiness	numofpets	petname	petage	sexofpet	typeofpet	Othertype	petweight	satisfaction	moneyspent	timespent	petsize
1								3.5	4	\$350.00	12.0	1
2								45.0	5	\$660.00	8.0	3
3								105.0	4	\$650.00	7.0	3
4								75.0	5	\$575.00	10.0	3
5								4.6	4	\$400.00	15.0	1
6								2.5	3	\$180.00	7.5	1
7							Rabbit	5.5	4	\$300.00	4.0	1
8								.1	2	\$150.00	3.0	1
9							Guinea Pig	2.0	2	\$350.00	8.0	1
10								120.0	3	\$330.00	12.5	3
11								135.0	5	\$625.00	14.0	3
12								4.8	4	\$300.00	9.0	1
13								5.5	4	\$280.00	12.0	1
14								95.0	5	\$550.00	10.0	3
15	7	2	Frankie	1.0	1	3		1.8	1	\$100.00	5.0	1
16	2	2	Simba	2.5	2	5	Rabbit	7.0	3	\$225.00	6.0	1
17	2	3	Max	4.0	1	1		100.0	4	\$475.00	7.5	3
18	3	2	Chloe	12.0	2	2		7.5	4	\$150.00	6.0	1
19	6	1	Sally	2.0	2	2		4.8	5	\$200.00	8.0	1
20	10	1	Daisy	3.0	2	4		.2	5	\$100.00	3.0	1
21	3	3	Hobo	4.0	1	1		95.0	4	\$750.00	14.0	3
22	8	5	Polly	8.0	2	3		.8	2	\$175.00	2.5	1
23	3	5	Oscar	6.0	1	1		130.0	5	\$900.00	12.0	3
24	6	2	Buster	3.0	1	1		85.0	4	\$550.00	13.0	3
25	4	1	Precious	1.0	2	2		5.0	3	\$275.00	9.0	1

Frequencies

Age of pet [petage]

Type of animal [typeofpet]

Other type of pet [Othertype]

Weight of pet [petweight]

Level of Satisfaction [satisfaction]

Amount of money spent [moneyspent]

Amount of time spent [timespent]

Variable(s):

Sex of pet [sexofpet]

Size of pet [petsize]

OK

Paste

Reset

Cancel

Help

☒ Display frequency tables

Statistics...

Charts...

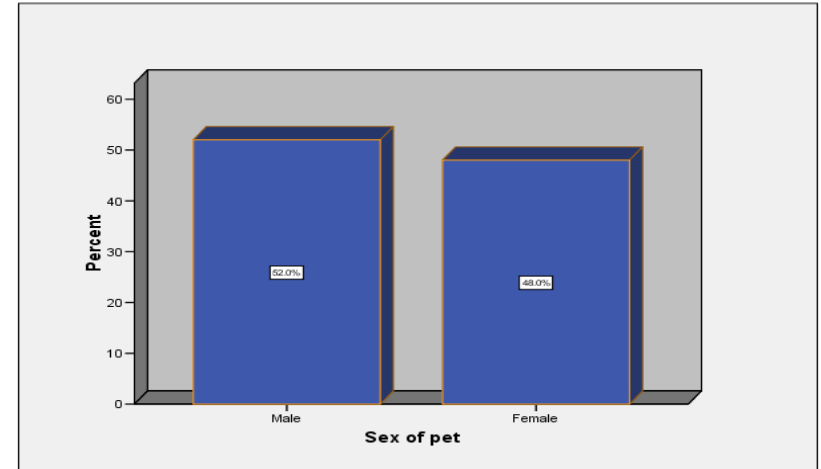
Format...



Sample Output

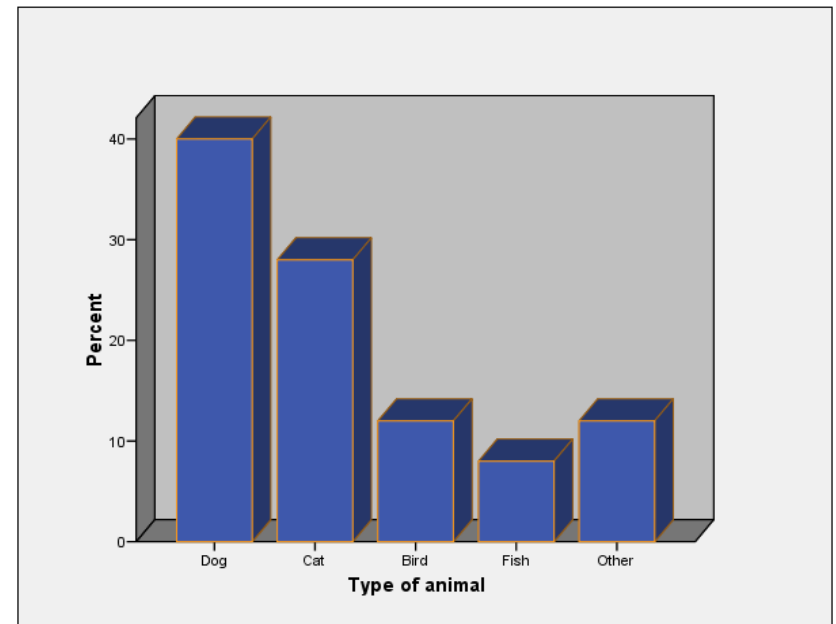
Sex of pet

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Male	13	52.0	52.0	52.0
	Female	12	48.0	48.0	100.0
	Total	25	100.0	100.0	



Type of animal

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Dog	10	40.0	40.0	40.0
	Cat	7	28.0	28.0	68.0
	Bird	3	12.0	12.0	80.0
	Fish	2	8.0	8.0	88.0
	Other	3	12.0	12.0	100.0
	Total	25	100.0	100.0	



Size of pet

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Small	15	60.0	60.0	60.0
	Large	10	40.0	40.0	100.0
	Total	25	100.0	100.0	

Numerical Variables

- Select **Analyze > Descriptive Statistics > Descriptives**
- A **Descriptives** dialog box will appear
- Move the numerical variables (***happiness, petage, petweight, moneyspent*** and ***timespent***), using the arrow into the **Variables** choice box
- Click on the ***Options*** button

Pet Survey.sav [DataSet10] - SPSS Data Editor

File Edit View Data Transform Analyze Graphs Utilities Add-ons Window Help									
28 : petage									
	happiness	numofpet:							Visible: 12
1	7								
2	5								
3	8								
4	9								
5	8								
6	7								
7	6								
8	2								
9	3								
10	4								
11	9								
12	9								
13	5								
14	6	1	Joe	1.0	1	1			
15	7	2	Frankie	1.0	1	3			
16	2	2	Simba	2.5	2	5	Rabbit		
17	2	3	Max	4.0	1	1			
18	3	2	Chloe	12.0	2	2			
19	6	1	Sally	2.0	2	2			
20	10	1	Daisy	3.0	2	4			
21	3	3	Hobo	4.0	1	1			
22	8	5	Polly	8.0	2	3			
23	3	5	Oscar	6.0	1	1			
24	6	2	Buster	3.0	1	1			
25	4	1	Precious	1.0	2	2			



28 : petage Visible: 12

Descriptives

Number of pets owned

Sex of pet [sexofpet]

Type of animal [typeofp]

Level of Satisfaction wi

Size of pet [petsize]

Variable(s):

Average level of happi

Age of pet [petage]

Weight of pet [petweig

Amount of money spen

Amount of time spent w

OK

Paste

Reset

Cancel

Help

Options...

☐ Save standardized values as variables

							pet	Othertype	petweight	satisfaction	moneyspent	timespent	petsize
1							2		3.5	4	\$350.00	12.0	1
2							1		45.0	5	\$660.00	8.0	3
3							1		105.0	4	\$650.00	7.0	3
4							1		75.0	5	\$575.00	10.0	3
5							2		4.6	4	\$400.00	15.0	1
6							3		2.5	3	\$180.00	7.5	1
7							5	Rabbit	5.5	4	\$300.00	4.0	1
8							4		.1	2	\$150.00	3.0	1
9							5	Guinea Pig	2.0	2	\$350.00	8.0	1
10							1		120.0	3	\$330.00	12.5	3
11	9	5	Lioness	2.0	2		1		135.0	5	\$625.00	14.0	3
12	9	6	Fanny	2.0	2		2		4.8	4	\$300.00	9.0	1
13	5	2	Mimi	7.0	2		2		5.5	4	\$280.00	12.0	1
14	6	1	Joe	1.0	1		1		95.0	5	\$550.00	10.0	3
15	7	2	Frankie	1.0	1		3		1.8	1	\$100.00	5.0	1
16	2	2	Simba	2.5	2		5	Rabbit	7.0	3	\$225.00	6.0	1
17	2	3	Max	4.0	1		1		100.0	4	\$475.00	7.5	3
18	3	2	Chloe	12.0	2		2		7.5	4	\$150.00	6.0	1
19	6	1	Sally	2.0	2		2		4.8	5	\$200.00	8.0	1
20	10	1	Daisy	3.0	2		4		.2	5	\$100.00	3.0	1
21	3	3	Hobo	4.0	1		1		95.0	4	\$750.00	14.0	3
22	8	5	Polly	8.0	2		3		.8	2	\$175.00	2.5	1
23	3	5	Oscar	6.0	1		1		130.0	5	\$900.00	12.0	3
24	6	2	Buster	3.0	1		1		85.0	4	\$550.00	13.0	3
25	4	1	Precious	1.0	2		2		5.0	3	\$275.00	9.0	1

Numerical Variables

- Ensure that the options ***Mean, Std Deviation, Minimum*** and ***Maximum*** are selected
- If you are interested in the ***Skewness*** or ***Kurtosis*** of the distribution you can select those as well
- Select **CONTINUE**, then **OK**.



28 : petage													Visible: 12
	happiness	numofpets	petname	petage	sexofpet	typeofpet	Othertype	petweight	satisfaction	moneyspent	timespent	petsize	
1	7	3	Whiskers	3.5	2	2		3.5	4	\$350.00	12.0	1	
2	5	3	Rover	2.0	1	1		45.0	5	\$660.00	8.0	3	
3	8	2	Timmy	5.0	1	1		105.0	4	\$650.00	7.0	3	
4	9	4	Chandler	4.0	1	1		75.0	5	\$575.00	10.0	3	
5	8	5	Lulu	6.0	2	2		4.6	4	\$400.00	15.0	1	
6	7	6	Missy	7.0	2	3		2.5	3	\$180.00	7.5	1	
7	6	3	Zac	2.0							4.0	1	
8	2	2	Nemo	3.0							3.0	1	
9	3	1	Shrek	4.0							8.0	1	
10	4	4	Jaws	1.5							12.5	3	
11	9	5	Lioness	2.0							14.0	3	
12	9	6	Fanny	2.0							9.0	1	
13	5	2	Mimi	7.0							12.0	1	
14	6	1	Joe	1.0							10.0	3	
15	7	2	Frankie	1.0							5.0	1	
16	2	2	Simba	2.5							6.0	1	
17	2	3	Max	4.0							7.5	3	
18	3	2	Chloe	12.0	2				4	\$150.00	6.0	1	
19	6	1	Sally	2.0	2				5	\$200.00	8.0	1	
20	10	1	Daisy	3.0	2				5	\$100.00	3.0	1	
21	3	3	Hobo	4.0	1				4	\$750.00	14.0	3	
22	8	5	Polly	8.0	2				2	\$175.00	2.5	1	
23	3	5	Oscar	6.0	1				5	\$900.00	12.0	3	
24	6	2	Buster	3.0	1				4	\$550.00	13.0	3	
25	4	1	Precious	1.0	2	2		5.0	3	\$275.00	9.0	1	

Descriptives

Variable(s):

Num

Sex

Type

Lev

Size

☐ Save

Descriptives: Options

☒ Mean

☐ Sum

Dispersion

☒ Std. deviation

☒ Minimum

☒ Variance

☒ Maximum

☐ Range

☐ S.E. mean

Distribution

☐ Kurtosis

☐ Skewness

Display Order

☒ Variable list

☐ Alphabetic

☐ Ascending means

☐ Descending means

Continue

Cancel

Help

OK

Paste

Reset

Cancel

Help

Options...



28 : petage													Visible: 12
	happiness	numofpets	petname	petage	sexofpet	typeofpet	Other type	petweight	satisfaction	moneyspent	timespent	petsize	
1	7	3	Whiskers	3.5	2	2		3.5	4	\$350.00	12.0	1	
2	5	3	Rover	2.0	1	1		45.0	5	\$660.00	8.0	3	
3	8	2	Timmy	5.0	1	1		105.0	4	\$650.00	7.0	3	
4	9	4	Chandler	4.0	1	1		75.0	5	\$575.00	10.0	3	
5	8	5	Lulu	6.0	2	2		4.6	4	\$400.00	15.0	1	
6	7	6	Missy	7.0	2	3		2.5	3	\$180.00	7.5	1	
7	6	3	Zac	2.0							4.0	1	
8	2	2	Nemo	3.0							3.0	1	
9	3	1	Shrek	4.0							8.0	1	
10	4	4	Jaws	1.5							12.5	3	
11	9	5	Lioness	2.0							14.0	3	
12	9	6	Fanny	2.0							9.0	1	
13	5	2	Mimi	7.0							12.0	1	
14	6	1	Joe	1.0							10.0	3	
15	7	2	Frankie	1.0							5.0	1	
16	2	2	Simba	2.5							6.0	1	
17	2	3	Max	4.0							7.5	3	
18	3	2	Chloe	12.0	2	2		7.5	4	\$150.00	6.0	1	
19	6	1	Sally	2.0	2	2		4.8	5	\$200.00	8.0	1	
20	10	1	Daisy	3.0	2	4		.2	5	\$100.00	3.0	1	
21	3	3	Hobo	4.0	1	1		95.0	4	\$750.00	14.0	3	
22	8	5	Polly	8.0	2	3		.8	2	\$175.00	2.5	1	
23	3	5	Oscar	6.0	1	1		130.0	5	\$900.00	12.0	3	
24	6	2	Buster	3.0	1	1		85.0	4	\$550.00	13.0	3	
25	4	1	Precious	1.0	2	2		5.0	3	\$275.00	9.0	1	
26													

Descriptives

Number of pets owned

Sex of pet [sexofpet]

Type of animal [typeofpet]

Level of Satisfaction with pet [satisfaction]

Size of pet [petsize]

Average level of happiness [happiness]

Age of pet [petage]

Weight of pet [petweight]

Amount of money spent [moneyspent]

Amount of time spent with pet [timespent]

☐ Save standardized values as variables

OK

Paste

Reset

Cancel

Help

Options...

Sample Output

Descriptive Statistics

	N	Minimum	Maximum	Mean	Std. Deviation	Variance
Average level of happiness on a scale of 1 to 10	25	2	10	5.68	2.495	6.227
Age of pet	25	1.0	12.0	3.860	2.6241	6.886
Weight of pet	25	.1	135.0	41.624	50.1853	2518.562
Amount of money spent on pet per year	25	\$100.00	\$900.00	\$384.0000	\$220.09941	48443.750
Amount of time spent with pet each week	25	2.5	15.0	8.720	3.6858	13.585
Valid N (listwise)	25					

Summary

- You should now be able to:
 - ✓ Start up and enter SPSS
 - ✓ Enter and Save Data in SPSS
 - ✓ Import data from an Excel spreadsheet into SPSS
 - ✓ Recode a variable
 - ✓ Conduct simple descriptive statistics in SPSS

Thank You

Any Questions??

**If you have any additional questions or
comments, please contact:**

Cynthia Wilson Garvan, PhD

Statistics Director, Office of Educational Research

College of Education, University of Florida

E-mail: *cgarvan@ufl.edu*