

Please circle or supply your answer		ID <u>1</u>
1. I would recommend this course to other students	SD 1 2 3 4 5	SA 1 2 3 4 5
2. I worked very hard in this course	1 2 3 4 5	1 2 3 4 5
3. My college is: Arts and sciences <input checked="" type="checkbox"/> Business <input type="checkbox"/> Engineering <input type="checkbox"/>		
4. My gender is	<input checked="" type="radio"/> M <input type="radio"/> F	
5. My GPA is	<u>3.12</u>	
6. For this class, I did: (check all that apply)		
The reading	<input type="checkbox"/>	
The homework	<input type="checkbox"/>	
Extra credit	<input checked="" type="checkbox"/>	

Please circle or supply your answer		ID <u>2</u>
1. I would recommend this course to other students	SD 1 2 3 4 5	SA 1 2 3 4 5
2. I worked very hard in this course	1 2 3 4 5	1 2 3 4 5
3. My college is: Arts and sciences <input type="checkbox"/> Business <input checked="" type="checkbox"/> Engineering <input type="checkbox"/>		
4. My gender is	<input checked="" type="radio"/> M <input type="radio"/> F	
5. My GPA is	<u>2.91</u>	
6. For this class, I did: (check all that apply)		
The reading	<input checked="" type="checkbox"/>	
The homework	<input checked="" type="checkbox"/>	
Extra credit	<input type="checkbox"/>	

Please circle or supply your answer		ID <u>3</u>
1. I would recommend this course to other students	SD 1 2 3 4 5	SA 1 2 3 4 5
2. I worked very hard in this course	1 2 3 4 5	1 2 3 4 5
3. My college is: Arts and sciences <input checked="" type="checkbox"/> Business <input type="checkbox"/> Engineering <input type="checkbox"/>		
4. My gender is	<input type="radio"/> M <input checked="" type="radio"/> F	
5. My GPA is	<u>3.33</u>	
6. For this class, I did: (check all that apply)		
The reading	<input type="checkbox"/>	
The homework	<input checked="" type="checkbox"/>	
Extra credit	<input checked="" type="checkbox"/>	

Please circle or supply your answer		ID <u>4</u>
1. I would recommend this course to other students	SD 1 2 3 4 5	SA 1 2 3 4 5
2. I worked very hard in this course	1 2 3 4 5	1 2 3 4 5
3. My college is: Arts and sciences <input checked="" type="checkbox"/> Business <input type="checkbox"/> Engineering <input type="checkbox"/>		
4. My gender is	<input type="radio"/> M <input checked="" type="radio"/> F	
5. My GPA is	<u>3.60</u>	
6. For this class, I did: (check all that apply)		
The reading	<input checked="" type="checkbox"/>	
The homework	<input checked="" type="checkbox"/>	
Extra credit	<input checked="" type="checkbox"/>	

Please circle or supply your answer		ID <u>5</u>
1. I would recommend this course to other students	SD 1 2 3 4 5	SA 1 2 3 4 5
2. I worked very hard in this course	1 2 3 4 5	1 2 3 4 5
3. My college is: Arts and sciences <input type="checkbox"/> Business <input checked="" type="checkbox"/> Engineering <input type="checkbox"/>		
4. My gender is	<input type="radio"/> M <input checked="" type="radio"/> F	
5. My GPA is	<u>2.52</u>	
6. For this class, I did: (check all that apply)		
The reading	<input type="checkbox"/>	
The homework	<input type="checkbox"/>	
Extra credit	<input checked="" type="checkbox"/>	

Please circle or supply your answer		ID <u>6</u>
1. I would recommend this course to other students	SD 1 2 3 4 5	SA 1 2 3 4 5
2. I worked very hard in this course	1 2 3 4 5	1 2 3 4 5
3. My college is: Arts and sciences <input type="checkbox"/> Business <input type="checkbox"/> Engineering <input checked="" type="checkbox"/>		
4. My gender is	<input type="radio"/> M <input checked="" type="radio"/> F	
5. My GPA is	<u>2.98</u>	
6. For this class, I did: (check all that apply)		
The reading	<input checked="" type="checkbox"/>	
The homework	<input type="checkbox"/>	
Extra credit	<input type="checkbox"/>	

Fig. 2.1. Completed questionnaires for participant 1 through 6.

Please circle or supply your answer

ID 7

1. I would recommend this course to other students SD 1 2 3 4 5 SA 1 2 3 4 5

2. I worked very hard in this course SD 1 2 3 4 5 SA 1 2 3 4 5

3. My college is: Arts and sciences ___ Business X Engineering ___

4. My gender is M F

5. My GPA is 2.50

6. For this class, I did: (check all that apply)

The reading ☒

The homework ☐

Extra credit ☐

ID 8

1. I would recommend this course to other students SD 1 2 3 4 5 SA 1 2 3 4 5

2. I worked very hard in this course SD 1 2 3 4 5 SA 1 2 3 4 5

3. My college is: Arts and sciences ___ Business X Engineering X

4. My gender is M F

5. My GPA is 2.2

6. For this class, I did: (check all that apply)

The reading ☐

The homework ☐

Extra credit ☐

ID 9

1. I would recommend this course to other students SD 1 2 3 4 5 SA 1 2 3 4 5

2. I worked very hard in this course SD 1 2 3 4 5 SA 1 2 3 4 5

3. My college is: Arts and sciences ___ Business X Engineering E

4. My gender is M F

5. My GPA is about 3 pt.

6. For this class, I did: (check all that apply)

The reading ☒

The homework ☐

Extra credit ☐

ID 10

1. I would recommend this course to other students SD 1 2 3 4 5 SA 1 2 3 4 5

2. I worked very hard in this course SD 1 2 3 4 5 SA 1 2 3 4 5

3. My college is: Arts and sciences ___ Business ___ Engineering ___

4. My gender is M F

5. My GPA is _____

6. For this class, I did: (check all that apply)

The reading ☐

The homework ☐

Extra credit ☐

ID 11

1. I would recommend this course to other students SD 1 2 3 4 5 SA 1 2 3 4 5

2. I worked very hard in this course SD 1 2 3 4 5 SA 1 2 3 4 5

3. My college is: Arts and sciences ___ Business Biology Engineering F

4. My gender is M F

5. My GPA is 9.67

6. For this class, I did: (check all that apply)

The reading ☐

The homework ☐

Extra credit ☐

ID 12

1. I would recommend this course to other students SD 1 2 3 4 5 SA 1 2 3 4 5

2. I worked very hard in this course SD 1 2 3 4 5 SA 1 2 3 4 5

3. My college is: Arts and sciences ___ Business X Engineering E

4. My gender is M F

5. My GPA is _____

6. For this class, I did: (check all that apply)

The reading ☒

The homework ☒

Extra credit ☒

Fig. 2.2. Completed questionnaires for participants 7 through 12.

Var No.	Please circle or supply your answer	ID	Variable Name
1	1. I would recommend this course to other students	SD enter # SA 1 2 3 4 5	Recommen
2	2. I worked very hard in this course	1 2 3 4 5	Workhard
3	3. My college is: Arts and sciences=1 Business=2 Engineering=3		College
4	4. My gender is	M=0 F=1	Gender
5	5. My GPA is	enter # with 2 decimals	GPA
6	6. For this class, I did: (check all that apply)	blank checked	Reading
7	The reading	=0 =1	Homework
8	The homework	=0 =1	Extraerd
	Extra credit	=0 =1	

Fig. 2.3. A blank survey showing how to code the data.

Please circle or supply your answer

1. I would recommend this course to other students

2. I worked very hard in this course

3. My college is: Arts and sciences ___ Business ~~X~~ Engineering ___

4. My gender is

5. My GPA is

6. For this class, I did: (check all that apply)

The reading

The homework

Extra credit

ID 7

SD 1 2 3 4 5 SA

1 2 3 4 5

1 2 3 4 5

M ~~X~~ F

2.50

☒

☐

☐

ID 8

SD 1 2 3 4 5 SA

1 2 3 4 5

1 2 3 4 5

A B ~~X~~ E ~~X~~

M ~~X~~ F

2.2

☐

☐

☐

ID 9

SD 1 2 3 4 5 SA

1 2 3 4 5

1 2 3 4 5

A B ~~X~~ E ~~X~~

M ~~X~~ F

about 3 pts.

☐

☒

☐

2. Enter 98.

1. Enter 2.50.

3. Enter 2.20.

4. Enter 3.00.

5. Leave all variables blank, except enter 99, missing, for college.

6. Enter 3.5.

7. Enter 1.

10. Enter 2.5.

Please circle or supply your answer

1. I would recommend this course to other students SD 1 2 3 4 5 SA 1 2 3 4 5

2. I worked very hard in this course SD 1 2 3 4 5 SA 1 2 3 4 5

3. My college is: Arts and sciences ___ Business ___ Engineering ___

4. My gender is M F

5. My GPA is _____

6. For this class, I did: (check all that apply)

The reading ☐

The homework ☐

Extra credit ☐

ID 10

ID 11

ID 12

SD 1 2 3 4 5 SA 1 2 3 4 5

SD 1 2 3 4 5 SA 1 2 3 4 5

A ___ B ___ E ___

Biology

M F

9.67

☐

☐

☐

A ___ B ___ E ___

M F

☒

☒

☒

11. Leave blank, missing.

8. For now enter 9.67, but see accompanying discussion.

9. Enter 1 for reading and homework.

Fig. 2.4. Completed survey with callout boxes showing we handled problem responses.

Name (Position) Label

Variable
number

recommen (1) I recommend course

Measurement Level: Scale

Column Width: 8 Alignment: Right

Print Format: F8.2

Write Format: F8.2

Variable
label

This mean the data for this
variable can be up to 8 digits
including 2 decimal places.

Value	Label
1.00	strongly disagree
5.00	strongly agree

Short
variable
name

workhard (2) I worked hard

Measurement Level: Scale

Column Width: 8 Alignment: Right

Print Format: F8.2

Write Format: F8.2

Value	Label
1.00	strongly disagree
5.00	strongly agree

This variable has three unordered values so it is called nominal.

```
college (3) college
  Measurement Level: Nominal
  Column Width: 8 Alignment: Right
  Print Format: F8
  Write Format: F8
  Missing Values: 98, 99
```

These are missing values for this variable. Most variables use blanks, which are the SPSS system missing value. However, here we need two missing value codes.

Value	Label
1	arts and sciences
2	business
3	engineering
98 M	other, multiple ans
99 M	blank

The M after 98 and 99 shows that SPSS considers these numbers to be missing data.

```
gender (4) gender
  Measurement Level: Nominal
  Column Width: 8 Alignment: Right
  Print Format: F8
  Write Format: F8
```

We call dichotomous (2 level) variables nominal, but they are a special case as discussed in Chapter 3.

Value	Label
0	male
1	female

These are the values or levels of the gender variable and their labels.

gpa (5) grade point average
 Measurement Level: Scale
 Column Width: 8 Alignment: Right
 Print Format: F8.2
 Write Format: F8.2

Value	Label
.00	All F's
4.00	All A's

This variable has many ordered values; the possible values are equally spaced and probably normally distributed so we called it scale.

reading (6) I did the reading
 Measurement Level: Nominal
 Column Width: 8 Alignment: Right
 Print Format: F8
 Write Format: F8

Value	Label
0	not checked/blank
1	checked

homework (7) I did the homework
Measurement Level: Nominal
Column Width: 8 Alignment: Right
Print Format: F8
Write Format: F8

Value	Label
0	not checked, blank
1	checked

extracrd (8) I did the extra credit
Measurement Level: Nominal
Column Width: 8 Alignment: Right
Print Format: F8
Write Format: F8

Value	Label
0	not checked, blank
1	checked

**Table 2.1 A Data Entry Form:
Responses Copied from the Questionnaires**

	<i>Recommend</i>	<i>Workhard</i>	<i>College</i>	<i>Gender</i>	<i>Gpa</i>	<i>Reading</i>	<i>Homework</i>	<i>Extracrd</i>
1	3	5	1	0	3.12	0	0	1
2	4	5	2	0	2.91	1	1	0
3	4	5	1	1	3.33	0	1	1
4	5	5	1	1	3.60	1	1	1
5	4	5	2	1	2.52	0	0	1
6	5	5	3	1	2.98	1	0	0
7	4	5	2	0	2.50	1	0	0
8	2	5	98	0	2.20	0	0	0
9	5	5	3	0	3.00	0	1	0
10			99					
11	3.5	5	1	1	9.67	1	1	0
12	2.5	5	2	1		1	1	1

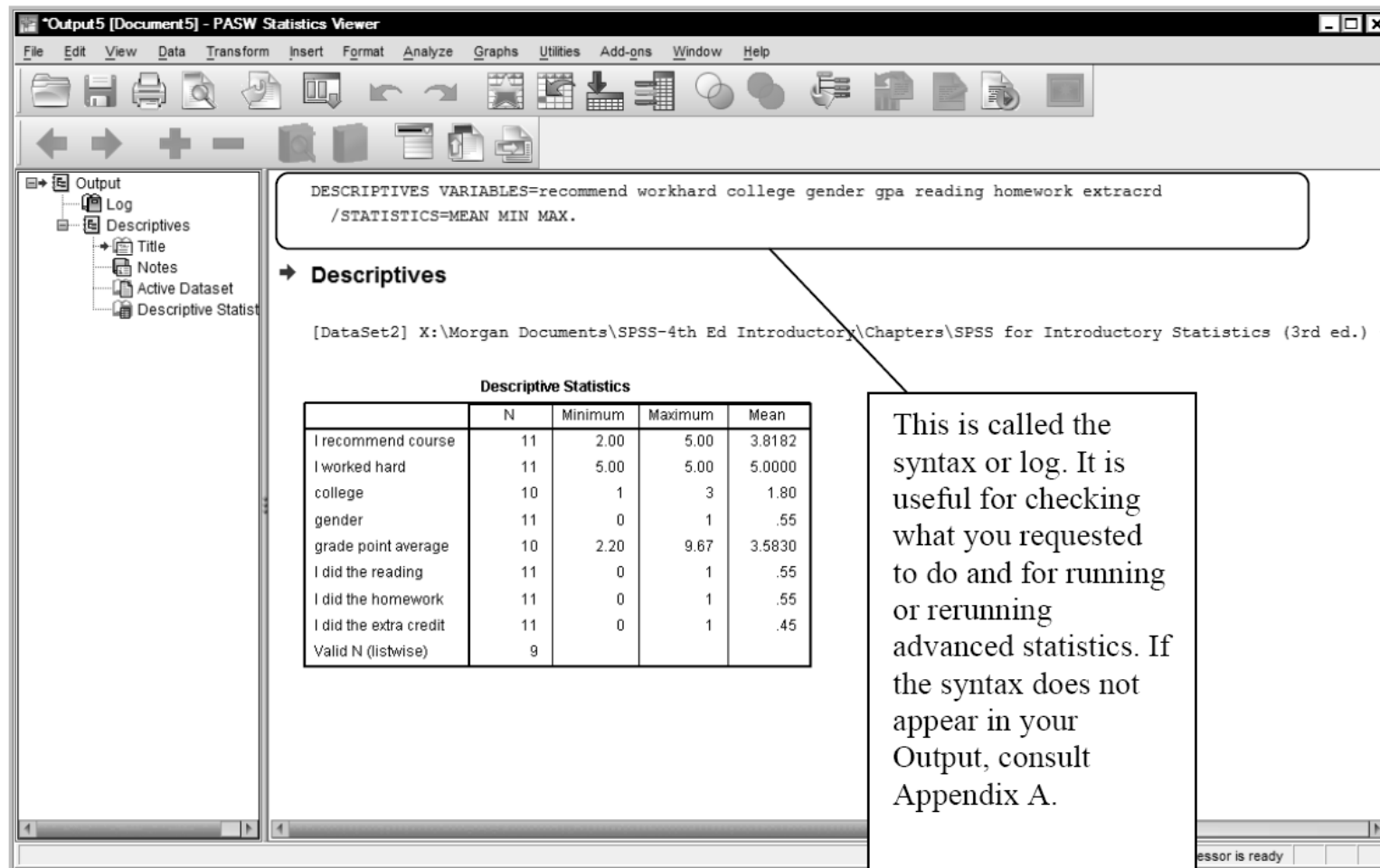


Fig. 2.16. SPSS output viewer for Descriptives.

DESCRIPTIVES

VARIABLES=recommen workhard college gender gpa reading homework extracrd
/STATISTICS=MEAN MIN MAX.

Descriptive Statistics

	N	Minimum	Maximum	Mean
I recommend course	11	2.00	5.00	3.8182
I worked hard	11	5.00	5.00	5.0000
college	10	1	3	1.80
gender	11	0	1	.55
grade point average	10	2.20	9.67	3.5830
I did the reading	11	0	1	.55
I did the homework	11	0	1	.55
I did the extra credit	11	0	1	.45
Valid N (listwise)	9			

Highest and lowest GPA's.

Average college is not meaningful.

Average GPA.

The number of people with no missing data.