

# Solutions Manual For Intermediate Statistics Using SPSS 1st Edition Herschel Knapp 1506377432 9781506377438

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**Solution Manual:**

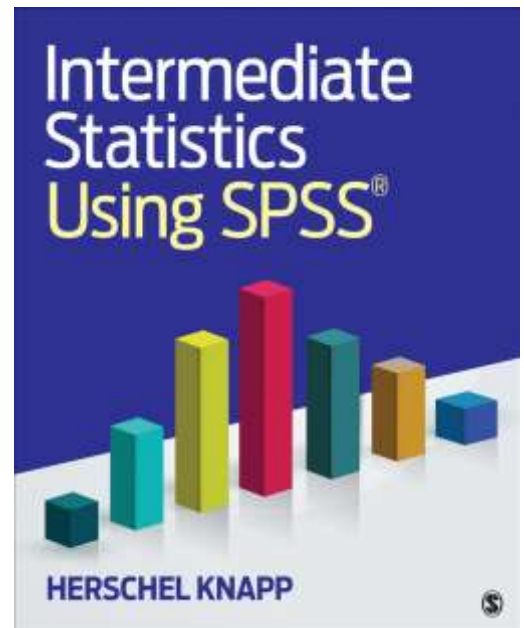
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## C H A P T E R 2

### Working in SPSS

Solutions to All Exercises

Exercise	Page
2.1	13
2.2	14
2.3	15
2.4	16
2.5	17
2.6	19
2.7	21
2.8	23
2.9	24
2.10	25





**EXERCISE 2.1**

Enrolled				
Standard Attributes	Position	Value	Count	Percent
	Label	<none>		
	Type	Numeric		
	Format	F8		
	Measurement	Nominal		
	Role	Input		
Valid Values	1	Yes	4	80.0%

Units		
Standard Attributes	Position	Value
	Label	<none>
	Type	Numeric
	Format	F8
	Measurement	Scale
	Role	Input
N	Valid	5
	Missing	0
Central Tendency and Dispersion	Mean	9.20
	Standard Deviation	6.261
	Percentile 25	6.00
	Percentile 50	12.00
	Percentile 75	12.00

Grade		
Standard Attributes	Position	Value
	Label	<none>
	Type	Numeric
	Format	F8
	Measurement	Scale
	Role	Input
N	Valid	5
	Missing	0
Central Tendency and Dispersion	Mean	81.40
	Standard Deviation	10.550
	Percentile 25	72.00
	Percentile 50	81.00
	Percentile 75	81.00

**EXERCISE 2.2**

		ID		
		Value	Count	Percent
▪ Standard Attributes	Position	1		
	Label	<none>		
	Type	String		
	Format	A8		
	Measurement	Nominal		
▪ Valid Values	Role	Input		
	AL331		1	20.0%
	DD987		1	20.0%
	JW105		1	20.0%
	QF732		1	20.0%
	RK122		1	20.0%

		Volunteer_Hours	
		Value	
▪ Standard Attributes	Position	3	
	Label	<none>	
	Type	Numeric	
	Format	F8.2	
	Measurement	Scale	
N	Role	Input	
	Valid	5	
▪ Central Tendency and Dispersion	Missing	0	
	Mean	2.2000	
	Standard Deviation	1.35093	
	Percentile 25	1.5000	
	Percentile 50	2.0000	
	Percentile 75	3.0000	

**EXERCISE 2.3**

		Value	Count	Percent
Standard Attributes	Position	2		
	Label	<none>		
	Type	Numeric		
	Format	F8		
	Measurement	Ordinal		
	Role	Input		
Valid Values	1	Associate's	1	20.0%
	2	Bachelor's	2	40.0%
	3	Master's	2	40.0%

		Value
Standard Attributes	Position	
	Label	<none>
	Type	Numeric
	Format	F8
	Measurement	Scale
	Role	Input
N	Valid	5
Central Tendency and Dispersion	Missing	
	Mean	27.20
	Standard Deviation	
	Percentile 25	
	Percentile 50	
	Percentile 75	

		Value
Standard Attributes	Position	
	Label	<none>
	Type	Numeric
	Format	F8
	Measurement	Scale
	Role	Input
N	Valid	5
Central Tendency and Dispersion	Missing	
	Mean	22.00
	Standard Deviation	
	Percentile 25	
	Percentile 50	

**EXERCISE 2.4**

Employ				
Standard Attributes	Position	Value	Count	Percent
	Label	<none>	2	
	Type	Numeric		
	Format	F8		
	Measurement	Ordinal		
	Role	Input		
Valid Values	1	Unemployed	1	20.0%
	2	Temporary	1	20.0%
	3	Part-time	1	20.0%

Work_Hours		
Standard Attributes	Position	Value
	Label	<none>
	Type	Numeric
	Format	F8
	Measurement	Scale
	Role	Input
N	Valid	5
	Missing	0
Central Tendency and Dispersion	Mean	24.20
	Standard Deviation	18.390
	Percentile 25	16.00
	Percentile 50	20.00

Sleep_Hours		
Standard Attributes	Position	Value
	Label	<none>
	Type	Numeric
	Format	F8.2
	Measurement	Scale
	Role	Input
N	Valid	5
	Missing	0
Central Tendency and Dispersion	Mean	8.3000
	Standard Deviation	1.20416
	Percentile 25	7.5000
	Percentile 50	8.0000

**EXERCISE 2.5**

		<u>First_Initial</u>			
			Value	Count	Percent
▪	Standard Attributes	Position	2		
▪		Label	<none>		
▪		Type	String		
▪		Format	A1		
▪		Measurement	Nominal		
▪		Role	Input		
▪	Valid Values	D		1	20.0%
▪		J		1	20.0%
▪		P		1	20.0%
▪		T		1	20.0%
		V		1	20.0%

		<u>Last_Name</u>			
			Value	Count	Percent
▪	Standard Attributes	Position	3		
▪		Label	<none>		
▪		Type	String		
▪		Format	A20		
▪		Measurement	Nominal		
▪		Role	Input		
▪	Valid Values	Freeman		1	20.0%
▪		Gower		1	20.0%
▪		Jones		1	20.0%
▪		Rexx		1	20.0%
		Smith		1	20.0%

		<u>Siblings</u>	
			Value
▪ Standard Attributes	Position		4
▪	Label		<none>
▪	Type		Numeric
▪	Format		F8
▪	Measurement		Scale
	Role		Input
N	Valid		5
	Missing		0
▪ Central Tendency and	Mean		1.60
▪ Dispersion	Standard Deviation		1.140
▪	Percentile 25		1.00
▪	Percentile 50		2.00
	Percentile 75		2.00

		<u>Adopted</u>			
			Value	Count	Percent
▪ Standard Attributes	Position		5		
▪	Label		<none>		
▪	Type		Numeric		
▪	Format		F8		
▪	Measurement		Nominal		
	Role		Input		
▪ Valid Values	1	Yes		1	20.0%
	2	No		4	80.0%



**EXERCISE 2.6**

Patient_ID		Value
Standard Attributes	Position	2
	Label	<none>
	Type	Numeric
	Format	F8
	Measurement	Scale
N	Role	Input
	Valid	5
	Missing	0
Central Tendency and Dispersion	Mean	5.27E9
	Standard Deviation	3.006E9
	Percentile 25	2.14E9
	Percentile 50	5.83E9

Age		Value
Standard Attributes	Position	3
	Label	<none>
	Type	Numeric
	Format	F8
	Measurement	Scale
N	Role	Input
	Valid	5
	Missing	0
Central Tendency and Dispersion	Mean	43.60
	Standard Deviation	24.337
	Percentile 25	24.00
	Percentile 50	38.00
	Percentile 75	53.00

Temp		Value
Standard Attributes	Position	4
	Label	<none>
	Type	Numeric
	Format	F8.2
	Measurement	Scale
N	Role	Input
	Valid	5
	Missing	0
Central Tendency and Dispersion	Mean	99.7600
	Standard Deviation	1.33903
	Percentile 25	98.8000
	Percentile 50	99.0000

		Value	Count	Percent
Standard Attributes	Position	Flu Shot	5	
	Label	<none>		
	Type	Numeric		
	Format	F20		
	Measurement	Nominal		
	Role	Input		
	Valid Values			
	1	Yes	3	60.0%
	2	No, and I don't	1	20.0%
	3	Not yet, but I'd like one	1	20.0%

		Value	Count	Percent
Standard Attributes	Position	Rx	6	
	Label	<none>		
	Type	String		
	Format	A20		
	Measurement	Nominal		
	Role	Input		
	Valid Values			
		Multivitamin	3	60.0%
			1	20.0%

## EXERCISE 2.7

		<b>Passport</b>		
		Value	Count	Percent
▪ Standard Attributes	Position	2		
▪	Label	<none>		
▪	Type	Numeric		
▪	Format	F8		
▪	Measurement	Nominal		
▪	Role	Input		
▪ Valid Values	1	Yes	2	40.0%
	2	No	3	60.0%
	3	Decline to	0	.0%

		<b>Fired</b>		
		Value	Count	Percent
▪ Standard Attributes	Position	3		
▪	Label	<none>		
▪	Type	Numeric		
▪	Format	F8		
▪	Measurement	Nominal		
▪	Role	Input		
▪ Valid Values	1	Yes	1	20.0%
	2	No	3	60.0%
	3	Decline to	1	20.0%

		ER		
		Value	Count	Percent
Standard Attributes	Position	4		
	Label	<none>		
	Type	Numeric		
	Format	F8		
	Measurement	Nominal		
Valid Values	1	Yes	2	40.0%
	2	No	3	60.0%
	3	Decline to	0	.0%

		DOB	
		Value	
Standard Attributes	Position	5	
	Label	<none>	
	Type	Numeric	
	Format	ADATE10	
	Measurement	Scale	
	Role	Input	
N	Valid	5	
	Missing	0	
	Mean	8/21/1965	
	Standard Deviation	280683:12:0 7.445	
	Percentile 25	1/23/1936	
Central Tendency and Dispersion	Percentile 50	6/07/1974	
	Percentile 75	3/01/1987	

**EXERCISE 2.8**

Dogs				
Standard Attributes	Position	Value	Count	Percent
	Label	<none>		
	Type	Numeric		
	Format	F8		
	Measurement	Ordinal		
	Role	Input		
Valid Values	1	Strongly disagree	0	.0%
	2	Disagree	0	.0%
	3	Neutral	1	20.0%
	4	Agree	1	20.0%
	5	Strongly agree	3	60.0%

Cats				
Standard Attributes	Position	Value	Count	Percent
	Label	<none>		
	Type	Numeric		
	Format	F8		
	Measurement	Ordinal		
	Role	Input		
Valid Values	1	Strongly disagree	1	20.0%
	2	Disagree	1	20.0%
	3	Neutral	1	20.0%
	4	Agree	0	.0%
	5	Strongly agree	2	40.0%

Pets		
Standard Attributes	Position	Value
	Label	<none>
	Type	Numeric
	Format	F8
	Measurement	Scale
	Role	Input
N	Valid	5
	Missing	0
Central Tendency and Dispersion	Mean	1.20
	Standard Deviation	1.304
	Percentile 25	.00
	Percentile 50	1.00

## EXERCISE 2.9

Blood_Type					
Standard Attributes		Value	Count	Percent	
	Position	2			
	Label	<none>			
	Type	Numeric			
	Format	F8			
	Measurement	Nominal			
	Role	Input			
Valid Values	1	A-	1	20.0%	
	2	A+	0	.0%	
	3	B-	0	.0%	
	4	B+	1	20.0%	
	5	AB-	0	.0%	
	6	AB+	1	20.0%	
	7	O-	1	20.0%	
	8	O+	0	.0%	

Gender					
Standard Attributes		Value	Count	Percent	
	Position	3			
	Label	<none>			
	Type	Numeric			
	Format	F8			
	Measurement	Nominal			
	Role	Input			
Valid Values	1	Female	2	40.0%	
	2	Male	3	60.0%	

Prior_Donor					
Standard Attributes		Value	Count	Percent	
	Position	4			
	Label	<none>			
	Type	Numeric			
	Format	F8			
	Measurement	Nominal			
	Role	Input			
Valid Values	1	Yes	2	40.0%	
	2	No	3	60.0%	

**EXERCISE 2.10**

Entree_Food				
Standard Attributes	Position	Value	Count	Percent
	Label	<none>		
	Type	Numeric		
	Format	F8		
	Measurement	Nominal		
	Role	Input		
Valid Values	1	Fish	4	80.0%
	2	Chicken	0	.0%
	3	Beef	1	20.0%

Entree_Quality		
Standard Attributes	Position	Value
	Label	<none>
	Type	Numeric
	Format	F8
	Measurement	Scale
	Role	Input
N	Valid	5
	Missing	0
Central Tendency and Dispersion	Mean	8.60
	Standard Deviation	1.140
	Percentile 25	8.00
	Percentile 50	9.00
	Percentile 75	9.00

Dessert_Quality		
Standard Attributes	Position	Value
	Label	<none>
	Type	Numeric
	Format	F8
	Measurement	Scale
	Role	Input
N	Valid	5
	Missing	0
Central Tendency and Dispersion	Mean	8.80
	Standard Deviation	1.304
	Percentile 25	8.00
	Percentile 50	9.00