Review Quiz: Analyzing Data

Select the best answer for each question. When you are finished, click Submit Quiz.

1. If you run this program, which title or titles appear in the final PROC PRINT results?

```
title 'ABC Company';
title2 'Sales Report';
proc print data=sales;
run;

title2 'Inventory Report';
proc print data=inventory;
run;

    a. Inventory Report
    b. <blank line>
    Inventory Report
    c. ABC Company
    Sales Report
    d. ABC Company
    Inventory Report
```

2. Which statement is true based on the given program?

- a. The column BP_Status has a permanent label in the data.health table.
- O b. The label for **BP_Status** appears in the PRINT report.
- c. The label for **BP_Status** appears in the FREQ report.
- d. The label for BP_Status appears in both reports.
- 3. Which of the following statements about the BY statement in a reporting procedure is false?

display

- a. The input data must be sorted by the BY variables.
- \bigcirc b. The procedure results are grouped by the unique values of the BY variables.
- c. The BY statement can be used in the PRINT, MEANS, FREQ, and UNIVARIATE procedures.
- d. First./Last. variables are created for each BY variable.
- 4. Which statements must be added to this program to create the following report?

```
proc print data=employee;
   where Department="Executives";
   var Job_Title Salary;
   format Salary dollar10.;
run;
```

Employee_ID	Job_Title	Salary
120259	Chief Executive Officer	\$433,800
120260	Chief Marketing Officer	\$207,885
120261	Chief Sales Officer	\$243,190
120262	Chief Financial Officer	\$268,455
		\$1,153,330

- O a. id Employee_ID;
- \bigcirc b. sum Salary;
- C. keep Employee_ID Job_Title Salary;
- \bigcirc d. a and b
- O e. b and c
- 5. By default, PROC FREQ creates a table of frequencies and percentages for which column types?
 - a. character columns
 - O b. numeric columns
 - c. both character and numeric columns
 - O d. None. Columns must always be specified.
- 6. Which TABLES statement can be used to create the following output?

Frequency	Table of Department by City							
Percent		City						
	Department	Melbourne	Sydney	Total				
	Administration	5 6.85	8 10.96	13 17.81				
	Engineering	1 1.37	3 4.11	4 5.48				
	Sales	17 23.29	29 39.73	46 63.01				
	Sales Management	1 1.37	2 2.74	3 4.11				
	Stock & Shipping	2 2.74	5 6.85	7 9.59				
	Total	26 35.62	47 64.38	73 100.00				

- a. tables Department*City;
- b. tables Department*City / norow nocol
- C. tables Department City / crosslist;
- O d. tables Department City / freq percent;
- 7. Which option is *not* required in the PROC FREQ step to produce this output?

	Number of Varia	able Levels					
	Variable	Levels					
	Department	17					
Departme	ent	Frequency	Percent				
Sales		122	39.61				
Administr	ration	31	10.06				
IS		20	6.49				
Marketing)	19	6.17				
Stock & Shipping		18	5.84				
Group HR Management		15	4.87				
Purchasing		15	4.87				
Accounts		14	4.55				
Logistics Management		12	3.90				
Sales Mai	nagement	10	3.25				
Engineeri	ing	9	2.92				
Concessi	on Management	8	2.60				
Accounts Management		7	2.27				
Executives		4	1.30				
Secretary of the Board		2	0.65				
Group Financials		1	0.32				
Strategy		1	0.32				

Employees by Department

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O b. NLEVELS

O c. NOCUM

○ d. ORDER=FREQ

8. Which statement about the MEANS procedure is true?

- a. The input table must be sorted by the column(s) in the CLASS statement.
- O b. Default statistics include N, SUM, MEAN, MIN, and MAX.
- c. The default output is a table.
- d. Without a VAR statement, PROC MEANS summarizes all numeric columns from the input table.

9. Which WAYS statement creates the following report?

proc means data=employee;
 var Salary;
 class Country City;

run;

Analysis Variable : Salary											
	N Obs N			Mean Std Dev		Dev	/ Minimum		Maximum		
308 308		4047	40476.92		36347.59		22710.00		433800.00		
			Aı	nalysis	s Varia	ble :	Salary				
City		N Obs	s N		Mean Std Dev		Dev	v Minimum Maximum			
Melbo	urne	26	3 26	313	31394.62		15853.18		3 25275.00 1082		55.00
Miam	i-Dade	88	85	469	33.59	502	72.33	3 25020.00 433		4338	00.00
Philad	delphia	68	68	452	92.87	409	35.07	7 25125.00 2684		2684	55.00
San D	Diego	82	2 82	366	98.65	226	56.12	2 22710.00 207885		85.00	
Sydne	ey	47	7 47	334	51.81	1 22072.40 25745.00 163		1630	40.00		
			Aı	nalysis	Varia	ble :	Salary				
Cou	ntry	N Obs	N	М	lean	Std	Dev	Minin	num	Maxin	num
AU		73	73	3271	9.11	1998	7.74	2527	5.00	16304	0.00
US		235	235	4288	6.79	3982	1.69	2271	0.00	43380	0.00

```
O a. ways 1, 2, 3;
```

10. True or False: To create the **SumSalary** and **MedianSalary** columns in the **SalSum** table, you must add the SUM and MEDIAN options to the PROC MEANS statement.

```
proc means data=employee noprint;
  var Salary;
  class Country City;
  output out=SalSum;
  ways 2;
run;
```

Country	City	_TYPE_	_FREQ_	SumSalary	MedianSalary
AU	Melbourne	3	26	\$816,260.00	\$27,462.50
AU	Sydney	3	47	\$1572235.00	\$27,365.00
US	Miami-Dade	3	85	\$3989355.00	\$32,650.00
US	Philadelphia	3	68	\$3079915.00	\$31,372.50
US	San Diego	3	82	\$3009125.00	\$30,215.00

O a. True

[○] *b.* ways _all_;

O b. False

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