



## Quiz: Lesson 5

---

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

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

```
title1 'The First Line';  
title2 'The Second Line';  
proc print data=sales;  
run;  
title2 'The Next Line';  
proc print data=sales;  
run;  
title 'The Top Line';  
proc print data=sales;  
run;
```

- ☐ a. The Top Line
  - ☐ b. The Top Line  
The Next Line
  - ☐ c. The Top Line  
The Second Line
  - ☐ d. The Top Line  
The First Line  
The Next Line
- 

2. Which statement substitutes the value of the macro variable **Year** in the footnote?

```
%let Year=2018;
```

- ☐ a. footnote 'year Sales';
  - ☐ b. footnote '&year Sales';
  - ☐ c. footnote "%year Sales";
  - ☐ d. footnote "&year Sales";
- 

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

```
data baseball2;  
    set sashelp.baseball;  
    BatAvg=CrHits/CrAtBat;  
    label BatAvg="Batting Average";  
run;  
  
proc print data=baseball2;
```

```

var Name Team BatAvg;
run;

proc means data=baseball2;
var BatAvg;
class Team;
run;

```

- ☐ a. The column **BatAvg** will have a permanent label in the **sashelp.baseball** data set.
- ☐ b. The label for **BatAvg** will appear in the PROC PRINT report.
- ☐ c. The label for **BatAvg** will appear in the PROC MEANS report.
- ☐ d. The label for **BatAvg** will appear in both reports.

4. Which statement is true regarding a BY statement in a reporting procedure such as PROC PRINT?

- ☐ a. The BY statement is responsible for sorting the table.
- ☐ b. Only one column can be specified in the BY statement.
- ☐ c. The BY statement groups the report by the specified columns.
- ☐ d. The BY statement must be the first statement after the PROC statement.

5. Which statement is false concerning the FREQ procedure?

- ☐ a. The NOPROCTITLE option can be placed in the PROC FREQ statement to remove the procedure title **The FREQ Procedure**.
- ☐ b. The ORDER=FREQ option can be placed in the PROC FREQ statement to display the column values in descending frequency count order.
- ☐ c. The PLOTS= option can be placed in the TABLES statement after the forward slash to create bar charts based on counts or percentages.
- ☐ d. The OUT= option can be placed in the TABLES statement after the forward slash to create a table containing counts and percentages.

6. Which PROC FREQ step creates the results shown here?

Number of Variable Levels	
Variable	Levels
Region	10

Region	Frequency	Percent
Africa	56	14.18
Asia	14	3.54
Canada	37	9.37
Central America/Caribbean	32	8.10
Eastern Europe	31	7.85
Middle East	24	6.08
Pacific	45	11.39

<b>South America</b>	54	13.67
<b>United States</b>	40	10.13
<b>Western Europe</b>	62	15.70

- ☐ a. `proc freq data=sashelp.shoes;`  
`tables Region nocum;`  
`run;`
- ☐ b. `proc freq data=sashelp.shoes levels;`  
`tables Region / nocum;`  
`run;`
- ☐ c. `proc freq data=sashelp.shoes nlevels;`  
`tables Region / nocum;`  
`run;`
- ☐ d. `proc freq data=sashelp.shoes / levels;`  
`tables Region nocum;`  
`run;`

7. Which report is created from the following PROC FREQ step?

```
proc freq data=sashelp.cars;
  where Cylinders in (4,6) and Type in ('Sedan','SUV');
  tables Type*Cylinders / nocol norow crosslist;
run;
```

☐ a.

Frequency Percent	Table of Type by Cylinders		
	Type	Cylinders	
		4	6
	SUV	7 2.77	30 11.86
			37 14.62

☐ b.

Type	Cylinders	Frequency	Percent	Cumulative Frequency	Cumulative Percent
SUV	4	7	2.77	7	2.77
SUV	6	30	11.86	37	14.62

☐ c.

Table of Type by Cylinders			
Type	Cylinders	Frequency	Percent
SUV	4	7	2.77
	6	30	11.86
	Total	37	14.62

☐ d.

Table of Type by Cylinders					
Type	Cylinders	Frequency	Percent	Row Percent	Column Percent
SUV	4	7	2.77	18.92	6.80
	6	30	11.86	81.08	20.00
	Total	37	14.62	110.00	

---

8. Which statement is true concerning the MEANS procedure?

- ☐ a. The VAR statement is required and identifies the analysis columns.
- ☐ b. The WAYS statement specifies the number of ways to make unique combinations of class columns.
- ☐ c. The MAXDEC= option is used in the VAR statement to specify the number of decimal places for the statistics.
- ☐ d. The \_COUNT\_ and \_FREQ\_ columns are automatically included in the output summary table that is produced by the OUT= option of the OUTPUT statement.

---

9. An input table must be pre-sorted by the column(s) listed in the CLASS statement of a PROC MEANS step.

```
proc means data=sashelp.heart;  
    var Cholesterol;  
    class Weight_Status;  
run;
```

- ☐ a. True
- ☐ b. False

---

10. Which statement from PROC MEANS contains valid syntax for creating a summary output table?

- ☐ a. out=work.summary mean;
- ☐ b. out work.summary mean(Weight)=TotW;
- ☐ c. output out work.summary Weight=TotW;
- ☐ d. output out=work.summary mean(Weight)=TotW;

---

Submit Quiz