

Challenge Answers

CHALLENGE 1 Sample Syntax
Page 10
VARIABLE LABELS bp.1s 'First Systolic Blood Pressure' bp.1d 'First Diastolic Blood Pressure' bp.2s 'Second Systolic Blood Pressure' bp.2d 'Second Diastolic Blood Pressure' time.ppn 'Postprandial Time when Labs were Drawn'.

CHALLENGE 2 Sample Syntax
Page 12
FREQUENCIES frame / histogram normal .

CHALLENGE 3 Sample Syntax	
Page 14	
FREQUENCIES glyhb.	
DESCRIPTIVES bp.1s bp.1d.	Note that you can carry out the same analysis on multiple variables simply by typing in both variable names and separating them with a space.
MEANS glyhb by frame.	
CROSSTABS gender by frame.	

CHALLENGE 4 Sample Syntax
Page 24
COMPUTE BMI=(703*weight/(height**2)). IF missing(height) or missing(weight) BMI=999. MISSING VALUES BMI(999). EXECUTE .

CHALLENGE 5 Sample Syntax
Page 28
DELETE VARIABLES frame_code3.

CHALLENGE 6 Sample Syntax
Page 29
SORT CASES Height_ft.

CHALLENGE 7 Sample Syntax
Page 30
COMPUTE BMI=(703*weight/(height**2)). IF missing(height) or missing(weight) BMI=999. MISSING VALUES BMI(999). EXECUTE.

CHALLENGE 8 Sample Syntax
Page 30
SORT CASES WH_Ratio.

CHALLENGE 9 Sample Syntax
Page 34
IF (gender='female' and (WH_Ratio<=0.80)) WH_Risk=0. IF (gender='female' and (WH_Ratio>0.80 and WH_Ratio<0.86)) WH_Risk=1. IF (gender='female' and (WH_Ratio>=0.86)) WH_Risk=2. IF missing(WH_Risk) WH_Risk=999. MISSING VALUES WH_Risk (999). VARIABLE LABELS WH_Risk 'Waist-to-Hip Ratio Scale'. VALUE LABELS WH_Risk 0 'Low' 1 'Moderate' 2 'High'. VARIABLE LEVEL WH_Risk(Ordinal). FORMATS WH_Risk (F1.0). FREQUENCIES WH_Risk.

CHALLENGE 10 Sample Syntax

Page 39

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IF (bp.1s <= 90) Sys_Code = -1.  
IF ((bp.1s > 90) and (bp.1s <=120)) Sys_Code = 0.  
IF ((bp.1s > 120) and (bp.1s <=129)) Sys_Code = 1.  
IF((bp.1s >= 130) and (bp.1s <=139)) Sys_Code = 2.  
IF((bp.1s >= 140) and (bp.1s <=180)) Sys_Code = 3.  
IF (bp.1s > 180) Sys_Code = 4.  
EXECUTE.  
FREQUENCIES Sys_Code.  
  
IF (bp.1d <= 60) Dia_Code = -1.  
IF ((bp.1d > 60) and (bp.1d <=80)) Dia_Code = 0.  
IF ((bp.1d > 80) and (bp.1d <90)) Dia_Code = 1.  
IF((bp.1d >= 90) and (bp.1d <=120)) Dia_Code = 2.  
IF (bp.1d > 120) Dia_Code = 3.  
EXECUTE.  
FREQUENCIES Dia_Code.
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CHALLENGE 11 Sample Syntax

Page 41

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IF missing(BP_Class) BP_Class=999.  
MISSING VALUES BP_Class(999).  
EXECUTE.
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CHALLENGE 12 Sample Syntax

Page 43

VARIABLE LABELS BP_Class 'Blood Pressure Risk Category'.

VALUE LABELS BP_Class

-2 'Low blood pressure'
-1 'Isolated Diastolic Hypotension'
0 'Healthy Range'
1 'Prehypertension'
2 'Stage 1 Hypertension'
3 'Pre-ISH'
4 'Isolated Systolic Hypertension'
5 'Stage 2 Hypertension'
6 'Hypertensive Crisis'.

FORMATS BP_Class(F1.0).

VARIABLE LEVEL BP_Class(**ORDINAL**).

CHALLENGE 13 Sample Syntax

Page 44

RECODE hdl (**LOWEST THRU** 39 = 0)(40 **THRU** 60 = 1)(61 **THRU HIGHEST** = 2)(**ELSE** = 999) **INTO** HDL_Code.

VARIABLE LABELS HDL_Code 'High-Density Lipoprotein Score'.

VALUE LABELS HDL_Code 0 'High Risk' 1 'Lower Risk' 2 'Optimal'.

MISSING VALUES HDL_Code(999).

VARIABLE LEVEL HDL_Code(**Ordinal**).

FORMATS HDL_Code (F1.0).

EXECUTE.

CHALLENGE 14 Sample Syntax

Page 44

COMPUTE non_hdl=chol-hdl.
EXECUTE.

RECODE non_hdl (LOWEST THRU 129 = 0)(130 THRU 159 = 1)(160 THRU 189 = 2)(190 THRU HIGHEST =3)(ELSE = 999) INTO non_hdl_code.

MISSING VALUES non_hdl_code(999).

VARIABLE LABELS non_hdl_code 'Non-HDL Cholesterol Risk Level'.

VALUE LABELS non_hdl_code 0 'Optimal' 1 'Borderline High' 2 'High' 3 'Very High'.

VARIABLE LEVEL non_hdl_code(Ordinal).

FORMATS non_hdl_code (F1.0).

EXECUTE.

CHALLENGE 15 Sample Syntax

Page 44

DO IF gender='female'.

IF (Ratio<3) TCR_Scale=0.

IF (Ratio>=3) and (Ratio <=4.4) TCR_Scale=1.

IF (Ratio>4.4) TCR_Scale=2.

ELSE IF gender='male'.

IF (Ratio<3.5) TCR_Scale=0.

IF (Ratio>=3.5) and (Ratio <=5) TCR_Scale=1.

IF (Ratio>5) TCR_Scale=2.

END IF.

IF missing(TCR_Scale) TCR_Scale=999.

MISSING VALUES TCR_Scale(999).

VARIABLE LEVEL TCR_Scale(Ordinal).

VARIABLE LABELS TCR_Scale 'Total Cholesterol Ratio Scale'.

VALUE LABELS TCR_Scale 0 'Optimal' 1 'Moderate' 2 'High'.

FORMATS TCR_Scale(F1.0).

EXECUTE.