This document is part of a collection that serves two purposes. First, it is a digital archive for a sampling of unpublished documents, presentations, questionnaires and limited publications resulting from over forty years of research. Second, it is a public archive for data on college student drinking patterns on the national and international level collected for over 20 years. Research topics by Dr. Engs have included the exploration of hypotheses concerning the determinants of behaviors such as student drinking patterns; models that have examine the etiology of cycles of prohibition and temperance movements, origins of western European drinking cultures (attitudes and behaviors concerning alcohol) from antiquity, eugenics, Progressive Era, and other social reform movements with moral overtones-Clean Living Movements; biographies of health and social reformers including Upton Sinclair; and oral histories of elderly monks.

Citation for this item
To obtain citation format and information for this document go to:
http://hdl.handle.net/2022/17153

Indiana University Archives
Paper manuscripts and material for Dr. Engs can be found in the IUArchives
http://webapp1.dlib.indiana.edu//findingaids/view?doc.view=entire_text&docId=InU-Ar-VAC0859
CALCULATIONS AND SCORING FOR BOTH THE 1975 CLASSIC AND ORIGINAL VERSIONS OF THE STUDENT ALCOHOL QUESTIONNAIRE (SAQ)


ABSTRACT

The Student Alcohol Questionnaire was created as part of the Indiana University’s mid-1970s alcohol education program Booze and You’s. The first version of the questionnaire was typed on 7 pages. It entitled in the repository as: “SAQOriginal75.pdf” and contains 2 items concerning parental drinking which were omitted from other versions of the instrument and from the first national study of student drinking and knowledge of alcohol. The second version was “offset printed” in the late 1970s on 4 pages. In the repository it is entitled: “SAQClassic75.pdf.” This version has 8 spaces for “office use only” at the top in which region of the country, school code or other variables can be entered. It is recommended that this “classic version” of the SAQ be duplicated for research on college student drinking patterns. Numerous publications using this questionnaire can be found in a literature search from the late 1970 onwards.

RELIABILITY AND VALIDITY INFORMATION FOR QUESTIONNAIRES ARE FOUND IN THE FOLLOWING PAPERS. PAPERS WHICH RESULTED FROM THE MID 1970S STUDIES ARE ALSO INCLUDED HERE


Engs, Ruth C. An updated reliability of the *Student Alcohol Questionnaire* (SAQ) for Researchers. Bloomington, IN: White Paper, 1992 IUScholarWorks repository: http://hdl.handle.net/2022/17182

IF YOU ARE USING THE SAQ FOR A CLASSROOM PROJECT, it is suggested that you just calculate the percent of subjects who answered each question stem rather than a Q-F level

**Information on some SPSS coding for a mainframe computer which can be adapted for pc SPSS program:**

LT = less then  
LE = less than or equal to.  
EQ = equal  
GE = greater or equal  
GT = greater than  
/ = beginning or end of a new line for the variable list or computation OR division (such as 4/2=2)  
* = times (such as 2x2=4)

VALUE LABEL = the variable and its numeric value, ie. “SEX” 1=male, 2=female.

See the Classic Student Alcohol Questionnaire (SAQ75) for an explanation of most variables at: http://hdl.handle.net/2022/17153

1. **SPSS AND VARIABLES FOR THE SAQClassic75 version of the SAQ.**
   
   SINCE IT IS RECOMMENDED THAT THIS VERSION BE USED, THE VARIABLE LISTS AND CALCULATIONS ARE DISCUSSED FIRST.
TITLE the title of your research
DATA LIST FILE='the name of your data file'

COMMENT these are the variable names that have been used to calculate answers on the SAQ. Please refer to the copy of the SAQClassic for the questions. Each of the numbers in front of a variable in the list refers to the space or “card column” on the line for the variable.

/1 REGION 1 SCHOOL 2 NAME 3-4 COMM 5 SIZE 6 TYPE 7 DPT 8 SEX 9 AGE 10-11 MAJOR 12 (A) CLASS 13 GPA 14 RACE 15 RELIG 16 ROS 17 BEFREQ 18 BEAMT 19 WINE 20 WINAMT 21 LIQ 22 LIQAMT 23 HANGOR 24 VOMIT 25 DRIVCAR 26 DRCARK 27 DWRIV 28 CLASSDR 29 CUTCLASD 30 MISHANG 31 DWI 32 CRITIC 33 LAW 34 JOBLOST 35 LOWGRADE 36 SCHADMIN 37 FIGHT 38 TINKPROB 39 DAMAGE 40 K1-K36 41-76

COMMENT “VALUE LABELS” gives the value for each stem of each question. ie. “ROS” = importance of religion.” Look at the SAQ to decipher the abbreviation

VALUE LABELS

HANGOR TO DAMAGE
   5 'AT LEAST 1,1 LST YR'
   4 'AT LEAST 1,2 M, NOT YR'
   3 'NOT DUR 2 M, 1 LST YR'
   2 'ONCE IN MY LIFE'
   1 'NOT HAPPENED'/
REGION 1 'NE' 2 'NC' 3 'S' 4 'W'/
COMM 1 'LESS 10,000' 2 'BET 100-500 THOUS' 3 'GT 500,000'/
SIZE 1 'LT 10,000' 2 'CT 10,000'/
TYPE 1 'PUBLIC' 2 'PRIVATE'/
SCHOOL 9 'CATHOLIC' 8 'PROT' 7 'BLACK' 6 'OTHER'/
SEX 1 'MALE' 2 'FEMALE'/
CLASS 1 'FRESH' 2 'SOPH' 3 'JUNIOR' 4 'SENIOR' 5 'OTHER'/
GPA 1 '4' 2 '3.5' 3 '3.0' 4 '2.5' 5 '2.0' 6 'LT 2.0'/
RACE 1 'WHITE' 2 'BLACK' 'HISPANIC' 4 'ORIENTAL' 5 'IND' 6 'OTHER'/
RELIG 1 'R.C.' 2 'JEW' 3 'PROT, ALLOW DRNK' 4 'PROT, NOT DRNK'
   6 'OTHER'/
BEAMT WINAMT LIQAMT 5 '6+ GLASSES' 4 '5-6 GLASSES' 3 '3-4 GLASSES'
   2 '1-2 GLASSES' 1 'LESS THAN 1 GLASS'/

COMMENT if you use a two digit code for each major, you will not need to do the following step.
RECODE MAJOR ("A"=1)("B"=2)("C"=3)("D"=3)("E"=5)("F"=6)
   ("G"=7)("H"=8)("I"=9)("J"=10)("K"=11)("L"=12)
   ("M"=13)("N"=14)("O"=15)("P"=16)("Q"=17)("R"=18)
   ("S"=19)("T"=20)("U"=21) INTO MAJORA

MAJORA  1 'SOCIAL SCI'  2 'ARTS/HUM'  3 'PSYCH'  4 'PRE-SOCIAL'
   5 'NURSING'  6 'PRE-LAW'  7 'EDUCATION'  8 'PRE-MED'  9 'FORENSICS'
   10 'HEALTH SCI'  11 'PHYSICAL SCI'  12 'HPER'  13 'ENGINEERING'
   14 'RELIGION'  15 'OTHER/UNDEC'  6 'BUSINESS'  17 'TELECOM'
   18 'GENERAL STUDIES'  19 'COMPUTER SCI'  20 'BIOLOGY'  21 'ECON/
BREFREQ WINE LIQ  5 'EVERY DAY'  4 'AT LE 1ST WK NOT DAT'
   3 'ONCE MO,LESS WK’  2 'ONCE A YR,LESS MO’  1 'ONCE A YR OR LESS'
   0 'NOT AT ALL'/
   ROS   1 'VERY IMPT'  2 'NOT IMPT'

MISSING VALUES CLASS TO DAMAGE (9999)
MISSING VALUES MAJOR (9')

COMMENT you must recode the following variables to reverse the
   order for the correct calculations

RECODE BEER TO DAMAGE (5=1)(4=2)(2=4)(1=5)

COMMENT  calculations to get  total Q-F  percent of absolute alcohol adapted from
   Cahalen 1969

IF   (BEFREQ LE 1 AND LIQ LE 1 AND WINE LE 1)TOTAL=1
IF   (BEFREQ GE LIQ AND BEFREQ EQ 2 AND BEAMT GE 2)TOTAL=2
IF   (BEFREQ GE LIQ AND BEFREQ EQ 2 AND BEAMT EQ 1)TOTAL=1
IF   (LIQ GT BEFREQ AND LIQ EQ 2 AND LIQAMT EQ 1)TOTAL=1
IF   (LIQ GT BEFREQ AND LIQ EQ 2 AND LIQAMT GE 2)TOTAL=2
IF   (LIQ GT BEFREQ AND LIQ EQ 2 AND LIQAMT EQ 0)TOTAL=1
IF   (BEFREQ GE LIQ AND BEFREQ EQ 2 AND BEAMT EQ 0)TOTAL=1
IF   (BEFREQ GE LIQ AND BEFREQ EQ 3 AND BEAMT EQ 1)TOTAL=1
IF   (BEFREQ GE LIQ AND BEFREQ EQ 3 AND BEAMT EQ 2)TOTAL=3
IF   (BEFREQ GE LIQ AND BEFREQ EQ 3 AND BEAMT EQ 0)TOTAL=1
IF   (LIQ GT BEFREQ AND LIQ EQ 3 AND LIQAMT EQ 2)TOTAL=3
IF   (LIQ GT BEFREQ AND LIQ EQ 3 AND LIQAMT EQ 1)TOTAL=1
IF   (LIQ GT BEFREQ AND LIQ EQ 3 AND LIQAMT EQ 0)TOTAL=1
IF   (BEFREQ GE LIQ AND BEFREQ EQ 4 AND BEAMT EQ 0)TOTAL=1
IF   (BEFREQ GE LIQ AND BEFREQ EQ 4 AND BEAMT EQ 1)TOTAL=4
IF   (BEFREQ GE LIQ AND BEFREQ EQ 4 AND BEAMT EQ 2)TOTAL=4
IF   (LIQ GT BEFREQ AND LIQ EQ 4 AND LIQAMT EQ 2)TOTAL=4
IF   (LIQ GT BEFREQ AND LIQ EQ 4 AND LIQAMT EQ 1)TOTAL=4
IF (LIQ GT BEFREQ AND LIQ EQ 3 AND LIQAMT EQ 3) TOTAL=4
IF (BEFREQ GE LIQ AND BEFREQ EQ 3 AND BEAMT EQ 3) TOTAL=4
IF (BEFREQ GE LIQ AND BEFREQ EQ 5 AND BEAMT EQ 0) TOTAL=1
IF (LIQ GT BEFREQ AND LIQ EQ 5 AND LIQAMT EQ 0) TOTAL=1
IF (BEFREQ GE LIQ AND BEFREQ EQ 5 AND BEAMT EQ 1) TOTAL=4
IF (BEFREQ GE LIQ AND BEFREQ EQ 5 AND BEAMT EQ 2) TOTAL=5
IF (LIQ GT BEFREQ AND LIQ EQ 5 AND LIQAMT EQ 2) TOTAL=5
IF (LIQ GT BEFREQ AND LIQ EQ 5 AND LIQAMT EQ 1) TOTAL=4
IF (LIQ GT BEFREQ AND LIQ EQ 3 AND LIQAMT GE 4) TOTAL=5
IF (BEFREQ GE LIQ AND BEFREQ EQ 3 AND BEAMT GE 4) TOTAL=5
IF (BEFREQ GE LIQ AND BEFREQ EQ 4 AND BEAMT EQ 3) TOTAL=5
IF (LIQ GT BEFREQ AND LIQ EQ 4 AND LIQAMT EQ 3) TOTAL=5
IF (LIQ GT BEFREQ AND LIQ EQ 5 AND LIQAMT EQ 3) TOTAL=5
IF (BEFREQ GE LIQ AND BEFREQ EQ 5 AND BEAMT EQ 3) TOTAL=5
IF (LIQ GT BEFREQ AND LIQ EQ 5 AND LIQAMT GE 4) TOTAL=6
IF (BEFREQ GE LIQ AND BEFREQ EQ 5 AND BEAMT GE 4) TOTAL=6
IF (BEFREQ GE LIQ AND BEFREQ EQ 4 AND BEAMT GE 4) TOTAL=6
IF (LIQ GT BEFREQ AND LIQ EQ 4 AND LIQAMT GE 4) TOTAL=6
IF (WINE GT BEFREQ AND WINE GT LIQ AND WINE EQ 2 AND WINAMT GE 1) TOTAL=1
IF (WINE GT BEFREQ AND WINE GT LIQ AND WINE EQ 2 AND WINAMT GE 0) TOTAL=1
IF (WINE GT BEFREQ AND WINE GT LIQ AND WINE EQ 3 AND WINAMT EQ 1) TOTAL=1
IF (WINE GT BEFREQ AND WINE GT LIQ AND WINE EQ 3 AND WINAMT EQ 2) TOTAL=3
IF (WINE GT BEFREQ AND WINE GT LIQ AND WINE EQ 3 AND WINAMT EQ 0) TOTAL=1
IF (WINE GT BEFREQ AND WINE GT LIQ AND WINE EQ 4 AND WINAMT EQ 0) TOTAL=1
IF (WINE GT BEFREQ AND WINE GT LIQ AND WINE EQ 4 AND WINAMT EQ 1) TOTAL=4
IF (WINE GT BEFREQ AND WINE GT LIQ AND WINE EQ 4 AND WINAMT EQ 2) TOTAL=4
IF (WINE GT BEFREQ AND WINE GT LIQ AND WINE EQ 4 AND WINAMT EQ 3) TOTAL=4
IF (WINE GT BEFREQ AND WINE GT LIQ AND WINE EQ 4 AND WINAMT EQ 3) TOTAL=5
IF (WINE GT BEFREQ AND WINE GT LIQ AND WINE EQ 5 AND WINAMT EQ 0) TOTAL=1
IF (WINE GT BEFREQ AND WINE GT LIQ AND WINE EQ 5 AND WINAMT EQ 1) TOTAL=4
IF (WINE GT BEFREQ AND WINE GT LIQ AND WINE EQ 5 AND WINAMT EQ 2) TOTAL=5
IF (WINE GT BEFREQ AND WINE GT LIQ AND WINE EQ 5 AND WINAMT GE 3) TOTAL=5
IF (WINE GT BEFREQ AND WINE GT LIQ AND WINE EQ 4 AND WINAMT GE 4) TOTAL=6
IF (WINE GT BEFREQ AND WINE GT LIQ AND WINE EQ 3 AND WINAMT GE 4) TOTAL=5

COMMENT calculations to get Q-F or absolute alcohol percent from each drink. ie, beer, wine and spirits

IF (BEFREQ LE 1) TOTALB=1
IF (BEFREQ EQ 2 AND BEAMT GE 2) TOTALB=2
IF (BEFREQ EQ 2 AND BEAMT EQ 1) TOTALB=1
IF (LIQ EQ 2 AND LIQAMT EQ 1) TOTALL=1
IF (LIQ EQ 2 AND LIQAMT GE 2) TOTALL=2
IF (LIQ EQ 2 AND LIQAMT EQ 0) TOTALL=1
IF (BEFREQ EQ 2 AND BEAMT EQ 0) TOTALB=1
IF (BEFREQ EQ 3 AND BEAMT EQ 1) TOTALB=1
IF (BEFREQ EQ 3 AND BEAMT EQ 2) TOTALB=3
IF (BEFREQ EQ 3 AND BEAMT EQ 0) TOTALB=1
IF (LIQ EQ 3 AND LIQAMT EQ 2) TOTALL=3
IF (LIQ EQ 3 AND LIQAMT EQ 1) TOTALL=1
IF (LIQ EQ 3 AND LIQAMT EQ 0) TOTALL=1
IF (BEFREQ EQ 4 AND BEAMT EQ 0) TOTALB=1
IF (BEFREQ EQ 4 AND BEAMT EQ 1) TOTALB=4
IF (BEFREQ EQ 4 AND BEAMT EQ 2) TOTALB=5
IF (LIQ EQ 4 AND LIQAMT EQ 2) TOTALL=5
IF (LIQ EQ 4 AND LIQAMT EQ 1) TOTALL=4
IF (LIQ EQ 4 AND LIQAMT EQ 3) TOTALL=4
IF (BEFREQ EQ 3 AND BEAMT EQ 3) TOTALB=4
IF (BEFREQ EQ 5 AND BEAMT EQ 0) TOTALB=1
IF (BEFREQ EQ 5 AND BEAMT EQ 1) TOTALB=4
IF (BEFREQ EQ 5 AND BEAMT EQ 2) TOTALB=5
IF (LIQ EQ 5 AND LIQAMT EQ 2) TOTALL=5
IF (LIQ EQ 5 AND LIQAMT EQ 1) TOTALL=4
IF (LIQ EQ 3 AND LIQAMT GE 4) TOTALL=5
IF (BEFREQ EQ 3 AND BEAMT GE 4) TOTALL=5
IF (BEFREQ EQ 4 AND BEAMT EQ 3) TOTALL=5
IF (LIQ EQ 4 AND LIQAMT EQ 3) TOTALL=5
IF (LIQ EQ 5 AND LIQAMT EQ 3) TOTALL=5
IF (BEFREQ EQ 5 AND BEAMT EQ 3) TOTALL=5
IF (LIQ EQ 5 AND LIQAMT GE 4) TOTALL=6
IF (BEFREQ EQ 5 AND BEAMT GE 4) TOTALB=6
IF (BEFREQ EQ 4 AND BEAMT GE 4) TOTALB=6
IF (LIQ EQ 4 AND LIQAMT GE 4) TOTALL=6
IF (WINE EQ 2 AND WINAMT GE 1)
TOTALW=1
IF (WINE EQ 2 AND WINAMT GE 0)
  TOTALW=1
IF (WINE EQ 3 AND WINAMT EQ 1)
  TOTALW=1
IF (WINE EQ 3 AND WINAMT EQ 2)
  TOTALW=3
IF (WINE EQ 3 AND WINAMT EQ 0)
  TOTALW=1
IF (WINE EQ 4 AND WINAMT EQ 0)
  TOTALW=1
IF (WINE EQ 4 AND WINAMT EQ 1)
  TOTALW=4
IF (WINE EQ 4 AND WINAMT EQ 2)
  TOTALW=4
IF (WINE EQ 3 AND WINAMT EQ 3)
  TOTALW=4
IF (WINE EQ 4 AND WINAMT EQ 3)
  TOTALW=5
IF (WINE EQ 5 AND WINAMT EQ 0)
  TOTALW=1
IF (WINE EQ 5 AND WINAMT EQ 1)
  TOTALW=4
IF (WINE EQ 5 AND WINAMT EQ 2)
  TOTALW=5
IF (WINE EQ 5 AND WINAMT GE 3)
  TOTALW=5
IF (WINE EQ 4 AND WINAMT GE 4)
  TOTALW=6
IF (WINE EQ 3 AND WINAMT GE 4)
  TOTALW=5

COMMENT calculations to get MEAN PROBLEM SCORE over past year

COMPUTE PROB=0
IF (HANGOR EQ 3 OR HANGOR EQ 4 OR HANGOR EQ 5) PROB=PROB+1
IF (VOMIT EQ 3 OR VOMIT EQ 4 OR VOMIT EQ 5) PROB=PROB +1
IF (DRIVCAR EQ 3 OR DRIVCAR EQ 4 OR DRIVCAR EQ 5) PROB=PROB + 1
IF (DRCARK EQ 3 OR DRCARK EQ 4 OR DRCARK EQ 5) PROB=PROB + 1
IF (DWDRIV EQ 3 OR DWDRIV EQ 4 OR DWDRIV EQ 5) PROB=PROB + 1
IF (CLASSDR EQ 3 OR CLASSDR EQ 4 OR CLASSDR EQ 5) PROB=PROB + 1
IF (CUTCLASD EQ 3 OR CUTCLASD EQ 4 OR CUTCLASD EQ 5) PROB=PROB + 1
IF (MISHANG EQ 3 OR MISHANG EQ 4 OR MISHANG EQ 5) PROB=PROB + 1
IF (DWI EQ 3 OR DWI EQ 4 OR DWI EQ 5) PROB=PROB + 1
IF (CRITIC EQ 3 OR CRITIC EQ 4 OR CRITIC EQ 5) PROB =PROB + 1
IF (LAW EQ 3 OR LAW EQ 4 OR LAW EQ 5) PROB=PROB + 1
IF (JOBLOST EQ 3 OR JOBLOST EQ 4 OR JOBLOST EQ 5) PROB=PROB + 1
IF (LOWGRADE EQ 3 OR LOWGRADE EQ 4 OR LOWGRADE EQ 5) PROB=PROB + 1
IF (SCHADMIN EQ 3 OR SCHADMIN EQ 4 OR SCHADMIN EQ 5) PROB=PROB + 1
IF (FIGHT EQ 3 OR FIGHT EQ 4 OR FIGHT EQ 5) PROB=PROB + 1
IF (TINKPROB EQ 3 OR TINKPROB EQ 4 OR TINKPROB EQ 5) PROB=PROB + 1
IF (DAMAGE EQ 3 OR DAMAGE EQ 4 OR DAMAGE EQ 5) PROB =PROB + 1

COMMENT  CALCULATIONS TO GET KNOWLEDGE SCORE.
The correct answer is found after the "eq". i.e, eq 1 means that
the correct answer is "1." if the correct answer is "1" or "2" one
point is added to the score.

COMPUTE  SCORE=0
IF (K1 EQ 1) SCORE=SCORE+1
IF (K2 EQ 2) SCORE=SCORE+1
IF (K3 EQ 2) SCORE=SCORE+1
IF (K4 EQ 1) SCORE=SCORE+1
IF (K5 EQ 2) SCORE=SCORE+1
IF (K6 EQ 2) SCORE=SCORE+1
IF (K7 EQ 2) SCORE=SCORE+1
IF (K8 EQ 1) SCORE=SCORE+1
IF (K9 EQ 1) SCORE=SCORE+1
IF (K10 EQ 1) SCORE=SCORE+1
IF (K11 EQ 1) SCORE=SCORE+1
IF (K12 EQ 2) SCORE=SCORE+1
IF (K13 EQ 1) SCORE=SCORE+1
IF (K14 EQ 2) SCORE=SCORE+1
IF (K15 EQ 2) SCORE=SCORE+1
IF (K16 EQ 1) SCORE=SCORE+1
IF (K17 EQ 2) SCORE=SCORE+1
IF (K18 EQ 1) SCORE=SCORE+1
IF (K19 EQ 1) SCORE=SCORE+1
IF (K20 EQ 1) SCORE=SCORE+1
IF (K21 EQ 1) SCORE=SCORE+1
IF (K22 EQ 1) SCORE=SCORE+1
IF (K23 EQ 2) SCORE=SCORE+1
IF (K24 EQ 1) SCORE=SCORE+1
IF (K25 EQ 2) SCORE=SCORE+1
IF (K26 EQ 1) SCORE=SCORE+1
IF (K27 EQ 2) SCORE=SCORE+1
IF (K28 EQ 1) SCORE=SCORE+1
IF (K29 EQ 1) SCORE=SCORE+1
IF (K30 EQ 1) SCORE=SCORE+1
IF (K31 EQ 2) SCORE=SCORE+1
IF (K32 EQ 2) SCORE=SCORE+1
IF (K33 EQ 1) SCORE=SCORE + 1
IF (K34 EQ 1) SCORE=SCORE + 1
IF (K35 EQ 2) SCORE=SCORE + 1
IF (K36 EQ 1) SCORE=SCORE + 1
IF (SCORE LE 13) SCORE1=1
IF (SCORE GE 14 AND SCORE LT 17) SCORE1=2
IF (SCORE GE 17 AND SCORE LT 20) SCORE1=3
IF (SCORE GE 20 AND SCORE LT 23) SCORE1=4
IF (SCORE GE 23 AND SCORE LT 26) SCORE1=5
IF (SCORE GE 26) SCORE1=6

COMMENT  CALCULATIONS TO OBTAIN MEAN DRINKS PER WEEK.
It is common to sum the number of drinks consumed for each beverage using the
following scaling to get MEAN DRINKS PER WEEK. See articles and presentations for
references to this procedure.

You can change the 'amount' or quantity part of the Questionnaire by asking students to write in
how many drinks on the average they consume rather than having them check the range. The
following calculations are for standardizing the amount. Make sure the items have been recoded
from the Classic Questionnaire.

NOTE: * = times, ie, “befreq*beamt” means multiply “frequency of drinking
Beer” by the “amount of beer consumed.” See VAR LABELS for frequency

RECODE BEAMT,WINAMT,LIQAMT (5=7.50) (4=5.50) (3=3.50) (2=1.5) (1=.50) (0=0)
RECODE BEFREQ,WINE,LIQ (5=7.0) (4=3.5) (3=.5) (2=.12) (1=.02) (0=0)
COMPUTE MEANB=0
COMPUTE MEANW=0
COMPUTE MEANL=0
COMPUTE MEANT=0
COMPUTE MEANB = BEFREQ*BEAMT
COMPUTE MEANW = WINE * WINAMT
COMPUTE MEANL = LIQ * LIQAMT
COMPUTE MEANT= SUM(MEANB,MEANW,MEANL)

COMMENT at this point you will need to put the T-Test, Chi-Square, MANOVA, etc
procedures if you are using a mainframe computer. Talk to your statistical SPSS
consultant for use with PC version.

2. SPSS AND VARIABLES FOR THE SAQOriginal75.pdf version of the SAQ.
The 1975 programs and original data set no longer exist as they were on computer cards and IBM sheets. The data from 1975 were rewritten into 1982 format during 1982-3 and are corrupted. The following program was developed for comparison between the 1975 and 1982 data sets and only items to be compared were selected out. Consequently some variables are missing. The knowledge score was calculated in a separate program. Calculations for a knowledge score are found after the drinking behavior alcohol program.

**Information on some SPSS coding for a mainframe computer:**

LT = less then  
LE = less than or equal to.  
EQ = equal  
GE = greater or equal  
GT = greater than  
/ = beginning of a new line for the variable list  
* = times (such as 2x2=4)

For example in the following SPSS command:

IF (WINE GT BEFREQ AND WINE GT LIQ AND WINE EQ 2 AND WINAMT GE 0)  
TOTAL=1

This statement in English would read, "if the frequency of drinking wine is GREATER THAN the frequency of drinking beer and if the frequency of drinking wine is GREATER THAN the frequency of drinking liquor (spirits) and if the frequency of drinking wine is EQUAL TO the number 2 on the scoring sheet and the amount of wine consumed is GREATER OR EQUAL to 2, then the category of the variable TOTAL is set to 1."

VALUE LABEL = the variable and its numeric value, ie. “sex” 1=male, 2=female.

**CALCULATIONS TO DERIVE THE QUANTITY-FREQUENCY LEVEL OF DRINKING (TOTAL) AND THE MEAN NUMBER OF DRINKS PER WEEK (MEANT) FOR THE SAMPLE.** The mean Q-F of beer (TOTALB), wine (TOTALW) and spirits (TOTALL) and mean number of drinks per week of beer (MEANB), wine (MEANW) and spirits (MEANL) can also be calculated.

Look under **COMMENT** for explanation for each area of calculations including Q-F, Problems Related to Drinking and Alcohol Knowledge.
VARIABLE LIST
SEX, COLDIV, CLASS, GPA, CITY, MARSTAT, RACE, RELIG, FATHER, MOTHER, MONTH, DAY, YEAR, BEFRQ, BEAMT, WINE, WINAMT, LIQ, LIQAMT, HANGOR, VOMIT, DRIVCAR, DRCARK, DRINKR, CLASSDR, CUTLASS, MISCLASS, DWI, CRITIC, LAW, JOBLOCK, LOWBGRAD, SCHADMIN, FIGHT, TINKPROB, DAMAGE

COMMENT SEE "ORIGINAL QUESTIONNAIRE" FOR DETAILS OF VARIABLES

VALUE LABELS
HANGOR TO DAMAGE(5) AT LEAST 1, 1 LST YR(4) ATLEAST1, 2 M, NOT YR (3) NOT DUR 2 M, ONCE LST YR(2) ONCE IN MY LIFE(1) NOT HAPPENED/
SEX(1) MALE (2) FEMALE/
CLASS(1) FRESHMAN(2) SOPHMORE (3) JUNIOR (4) SENIOR(5) OTHER/
GPA(1) 4 (2) 3.5 (3) 3.0 (4) 2.5 (5) 2.0/
CITY(1) FARM OR RURAL(2) TOWN 5, 500K (3) SMALL CITY 50-5250K(4) URBAN/
MARSTAT(1) SINGLE(2) DIV OR WIDOW/
RACE(1) WHITE(2) BLACK(3) SPANISH(4) ORIENTAL(5) INDIAN(6) OTHER/
RELIG(1) R.C. (2) JEW(3) C PROT, ALLOW SDRINK(4) C PROT, DOES NOT DR(5) OTHER /

COMMENT FREQUENCY OF PARENTAL DRINKING
FATHER, MOTHER(1) EVERY DAT(2) AT LE 1ST WK NOT DAT
(3) ONCE MO, LESS WEEK(4) ONCE A YR, LESS MO (5) ONCE A YR OR LESS (6) NEVER/

COMMENT EXPLANATION FOR QUANTITY OF ALCOHOL CONSUMED
BEAMT, WINAMT, LIQAMT(5) 6 OR MORE GLASSES(4) 5 OR 6 GASSES(3)
3 OR 4 GLASSES(2) 1 OR 2 GLASSES(1) LESS THAN 1 GLASS/
COLDIV(1) UNIVER DIV(2) ARTS AND SCIENCE
(3) BUSINESS (4) NURSING(5) EDUCATION(6) MUSIC(7) HPER(8) ALLIED
Health(9) OTHER /
MONTH (1) JAN (12) DEC/

COMMENT EXPLANATION FOR FREQUENCY OF CONSUMING BEVERAGE
BEAMT, WINE, LIQ(5) EVERY DAT(4) AT LE 1ST WK NOT DAT
(3) ONCE MO, LESS WEEK(2) ONCE A YR, LESS MO (1) ONCE A YR OR LESS

MISSING VALUES
BEFRQ TO LIQAMT(9) SEX TO MOTHER(0) HANGOR TO DAMAGE(0,9)

INPUT MEDIUM CARDS
INPUT FORMAT FIXED (F1.0, 7X, F1.0, 1X, 8A1, 12X, 3F2.0, 3X, 23F1.0)
N OF CASES UNKNOWN
RECODE CLASS TO MOTHER("A"=1) ("B"=2) ("C"=3) ("D"=4) ("E"=5) ("F"=6)
MISSING VALUES BEFRQ TO LIQAMT(0) / HANGOR TO DAMAGE(9)
IF (COLDIV GT 9 OR COLDIV LT 0) COLDIV=0
DO REPEAT XDUD=CLASS TO MOTHER
IF (XDUD GT 6 OR XDUD LT 0) XDUD=0
END REPEAT

COMMENT THE FOLLOWING DERIVE A QUANTITY FREQUENCY INDEX
IF (SEX GT 2 OR SEX LT 0) SEX=0
IF (BEFRQ LE 1 AND LIQ LE 1 AND WINE LE 1) TOTAL=1
IF (BEFRQ GE LIQ AND BEFRQ EQ 2 AND BEAMT GE 2) TOTAL=2
IF (BEFRQ GE LIQ AND BEFRQ EQ 2 AND BEAMT EQ 1) TOTAL=1
IF (LIQ GT BEFRQ AND LIQ EQ 2 AND LIQAMT EQ 1) TOTAL=1
IF (LIQ GT BEFRQ AND LIQ EQ 2 AND LIQAMT GE 2) TOTAL=2
IF (LIQ GT BEFRQ AND LIQ EQ 2 AND LIQAMT EQ 0) TOTAL=1
IF (BEFREQ GE LIQ AND BEFREQ EQ 2 AND BEAMT EQ 0) TOTAL=1
IF (BEFREQ GE LIQ AND BEFREQ EQ 3 AND BEAMT EQ 1) TOTAL=1
IF (BEFREQ GE LIQ AND BEFREQ EQ 3 AND BEAMT EQ 2) TOTAL=3
IF (BEFREQ GE LIQ AND BEFREQ EQ 3 AND BEAMT EQ 0) TOTAL=1
IF (LIQ GT BEFREQ AND LIQ EQ 3 AND LIQAMT EQ 2) TOTAL=3
IF (LIQ GT BEFREQ AND LIQ EQ 3 AND LIQAMT EQ 1) TOTAL=1
IF (LIQ GT BEFREQ AND LIQ EQ 3 AND LIQAMT EQ 0) TOTAL=1
IF (BEFREQ GE LIQ AND BEFREQ EQ 4 AND BEAMT EQ 0) TOTAL=1
IF (BEFREQ GE LIQ AND BEFREQ EQ 4 AND BEAMT EQ 1) TOTAL=4
IF (BEFREQ GE LIQ AND BEFREQ EQ 4 AND BEAMT EQ 2) TOTAL=4
IF (LIQ GT BEFREQ AND LIQ EQ 4 AND LIQAMT EQ 2) TOTAL=4
IF (LIQ GT BEFREQ AND LIQ EQ 4 AND LIQAMT EQ 1) TOTAL=4
IF (LIQ GT BEFREQ AND LIQ EQ 4 AND LIQAMT EQ 0) TOTAL=1
IF (BEFREQ GE LIQ AND BEFREQ EQ 4 AND BEAMT EQ 3) TOTAL=4
IF (BEFREQ GE LIQ AND BEFREQ EQ 4 AND BEAMT EQ 0) TOTAL=1
IF (LIQ GT BEFREQ AND LIQ EQ 4 AND LIQAMT EQ 3) TOTAL=5
IF (BEFREQ GE LIQ AND BEFREQ EQ 4 AND BEAMT EQ 3) TOTAL=5
IF (LIQ GT BEFREQ AND LIQ EQ 4 AND LIQAMT EQ 0) TOTAL=1
IF (LIQ GT BEFREQ AND LIQ EQ 4 AND LIQAMT EQ 3) TOTAL=5
IF (WINE GT BEFREQ AND WINE GT LIQ AND WINE EQ 2 AND WINAMT GE 1) TOTAL=1
IF (WINE GT BEFREQ AND WINE GT LIQ AND WINE EQ 2 AND WINAMT GE 0) TOTAL=1
IF (WINE GT BEFREQ AND WINE GT LIQ AND WINE EQ 3 AND WINAMT EQ 1) TOTAL=1
IF (WINE GT BEFREQ AND WINE GT LIQ AND WINE EQ 3 AND WINAMT EQ 2) TOTAL=3
IF (WINE GT BEFREQ AND WINE GT LIQ AND WINE EQ 3 AND WINAMT EQ 0) TOTAL=1
IF (WINE GT BEFREQ AND WINE GT LIQ AND WINE EQ 4 AND WINAMT EQ 0) TOTAL=1
IF (WINE GT BEFREQ AND WINE GT LIQ AND WINE EQ 4 AND WINAMT EQ 1) TOTAL=4
IF (WINE GT BEFREQ AND WINE GT LIQ AND WINE EQ 4 AND WINAMT EQ 2) TOTAL=4
IF (WINE GT BEFREQ AND WINE GT LIQ AND WINE EQ 3 AND WINAMT EQ 3) TOTAL=4
IF (WINE GT BEFREQ AND WINE GT LIQ AND WINE EQ 3 AND WINAMT EQ 0) TOTAL=1
IF (WINE GT BEFREQ AND WINE GT LIQ AND WINE EQ 5 AND WINAMT EQ 0) TOTAL=1
IF (WINE GT BEFREQ AND WINE GT LIQ AND WINE EQ 5 AND WINAMT EQ 3) TOTAL=5
IF (WINE GT BEFREQ AND WINE GT LIQ AND WINE EQ 5 AND WINAMT EQ 0) TOTAL=1
IF (WINE GT BEFREQ AND WINE GT LIQ AND WINE EQ 5 AND WINAMT EQ 1) TOTAL=4
IF (WINE GT BEFREQ AND WINE GT LIQ AND WINE EQ 5 AND WINAMT EQ 2) TOTAL=4
IF (WINE GT BEFREQ AND WINE GT LIQ AND WINE EQ 5 AND WINAMT EQ 3) TOTAL=5
EQ, 1) TOTAL=4
IF (WINE GT BEFREQ AND WINE GT LIQ AND WINE EQ 5 AND WINAMT
EQ, 2) TOTAL=5
IF (WINE GT BEFREQ AND WINE GT LIQ AND WINE EQ 5 AND WINAMT
GE, 3) TOTAL=5
IF (WINE GT BEFREQ AND WINE GT LIQ AND WINE EQ 4 AND WINAMT
GE, 4) TOTAL=6
IF (WINE GT BEFREQ AND WINE GT LIQ AND WINE EQ 3 AND WINAMT
GE, , 4) TOTAL=5

COMMENT ATTEMPT TO GET ABSOLUTE ALC FROM HIGHEST AMT ALC
IF (BEFREQ LE 1 AND LIQ LE 1 AND WINE LE 1) TOTALB=1
IF (BEFREQ GE LIQ AND BEFREQ EQ 2 AND BEAMT GE 2) TOTALB=2
IF (BEFREQ GE LIQ AND BEFREQ EQ 2 AND BEAMT EQ 1) TOTALB=1
IF (LIQ GT BEFREQ AND LIQ EQ 2 AND LIQAMT EQ 1) TOTAL=1
IF (LIQ GT BEFREQ AND LIQ EQ 2 AND LIQAMT EQ 0) TOTAL=1
IF (BEFREQ GE LIQ AND BEFREQ EQ 2 AND BEAMT EQ 0) TOTAL=1
IF (BEFREQ GE LIQ AND BEFREQ EQ 3 AND BEAMT EQ 1) TOTAL=1
IF (BEFREQ GE LIQ AND BEFREQ EQ 3 AND BEAMT EQ 0) TOTAL=1
IF (LIQ GT BEFREQ AND LIQ EQ 3 AND LIQAMT EQ 2) TOTAL=3
IF (LIQ GT BEFREQ AND LIQ EQ 3 AND LIQAMT EQ 1) TOTAL=1
IF (LIQ GT BEFREQ AND LIQ EQ 3 AND LIQAMT EQ 0) TOTAL=1
IF (LIQ GT BEFREQ AND LIQ EQ 4 AND LIQAMT EQ 0) TOTAL=1
IF (BEFREQ GE LIQ AND BEFREQ EQ 4 AND BEAMT EQ 0) TOTAL=1
IF (BEFREQ GE LIQ AND BEFREQ EQ 4 AND BEAMT EQ 1) TOTAL=4
IF (BEFREQ GE LIQ AND BEFREQ EQ 4 AND BEAMT EQ 2) TOTAL=4
IF (LIQ GT BEFREQ AND LIQ EQ 4 AND LIQAMT EQ 2) TOTAL=4
IF (LIQ GT BEFREQ AND LIQ EQ 4 AND LIQAMT EQ 1) TOTAL=4
IF (LIQ GT BEFREQ AND LIQ EQ 4 AND LIQAMT EQ 0) TOTAL=4
IF (BEFREQ GE LIQ AND BEFREQ EQ 5 AND BEAMT EQ 0) TOTAL=1
IF (BEFREQ GE LIQ AND BEFREQ EQ 5 AND BEAMT EQ 1) TOTAL=5
IF (BEFREQ GE LIQ AND BEFREQ EQ 5 AND BEAMT EQ 2) TOTAL=5
IF (LIQ GT BEFREQ AND LIQ EQ 5 AND LIQAMT EQ 2) TOTAL=5
IF (LIQ GT BEFREQ AND LIQ EQ 5 AND LIQAMT EQ 1) TOTAL=4
IF (LIQ GT BEFREQ AND LIQ EQ 5 AND LIQAMT GE 4) TOTAL=5
IF (BEFREQ GE LIQ AND BEFREQ EQ 5 AND BEAMT GE 4) TOTAL=5
IF (BEFREQ GE LIQ AND BEFREQ EQ 4 AND BEAMT GE 4) TOTAL=6
IF (LIQ GT BEFREQ AND LIQ EQ 4 AND LIQAMT GE 4) TOTAL=6
1) TOTALW=1
IF (WINE GT BEFREQ AND WINE GT LIQ AND WINE EQ 2 AND WINAMT GE
0) TOTALW=1
IF (WINE GT BEFREQ AND WINE GT LIQ AND WINE EQ 3 AND WINAMT EQ
1) TOTALW=1
IF (WINE GT BEFREQ AND WINE GT LIQ AND WINE EQ 3 AND WINAMT EQ
2) TOTALW=3
IF (WINE GT BEFREQ AND WINE GT LIQ AND WINE EQ 3 AND WINAMT EQ 0) TOTALW=1
IF (WINE GT BEFREQ AND WINE GT LIQ AND WINE EQ 4 AND WINAMT EQ 0) TOTALW=1
IF (WINE GT BEFREQ AND WINE GT LIQ AND WINE EQ 4 AND WINAMT EQ 1) TOTALW=4
IF (WINE GT BEFREQ AND WINE GT LIQ AND WINE EQ 4 AND WINAMT EQ 2) TOTALW=4
IF (WINE GT BEFREQ AND WINE GT LIQ AND WINE EQ 4 AND WINAMT EQ 3) TOTALW=4
IF (WINE GT BEFREQ AND WINE GT LIQ AND WINE EQ 4 AND WINAMT EQ 4) TOTALW=4
IF (WINE GT BEFREQ AND WINE GT LIQ AND WINE EQ 4 AND WINAMT EQ 5) TOTALW=5
IF (WINE GT BEFREQ AND WINE GT LIQ AND WINE EQ 4 AND WINAMT EQ 6) TOTALW=5
IF (WINE GT BEFREQ AND WINE GT LIQ AND WINE EQ 5 AND WINAMT EQ 0) TOTALW=1
IF (WINE GT BEFREQ AND WINE GT LIQ AND WINE EQ 5 AND WINAMT EQ 1) TOTALW=4
IF (WINE GT BEFREQ AND WINE GT LIQ AND WINE EQ 5 AND WINAMT EQ 2) TOTALW=5
IF (WINE GT BEFREQ AND WINE GT LIQ AND WINE EQ 5 AND WINAMT EQ 3) TOTALW=5
IF (WINE GT BEFREQ AND WINE GT LIQ AND WINE EQ 5 AND WINAMT EQ 4) TOTALW=6
IF (WINE GT BEFREQ AND WINE GT LIQ AND WINE EQ 5 AND WINAMT EQ 5) TOTALW=5
IF (TOTALB GE TOTALW OR TOTTALL) TOTALA=TOTALB
IF (TOTTALL GE TOTALW OR GT TOTALB) TOTALA=TOTTALL
IF (TOTALW GT TOTALB OR TOTTALL) TOTALA=TOTALW

COMMENT TOTALA SHOULD PICK UP MOST PREVALENT CONSUMED BEV

IF (RACE EQ 1) ETHNIC=1
IF (RACE EQ 2) ETHNIC=2
IF (TOTAL EQ 1) COLAPS=1
IF (TOTAL EQ 2) COLAPS=1
IF (TOTAL EQ 3) COLAPS=2
IF (TOTAL EQ 4) COLAPS=2
IF (TOTAL EQ 5) COLAPS=3

VALUE LABELS TOTAL (1) NEVER (2) INFREQ (3) LIGHT (4) MODER (5) HEAVY MODER
VALUE LABELS ETHNIC (1) WHITE (2) BLACK
VALUE LABELS COLAPS (1) LIGHT (2) MEDIUM (3) HEAVY

CROSSTABS VARIABLES=SEX(1,2)
TOTAL, TOTALA, TOTALB, TOTALW, TOTALB (1,6)
MONTH (1,12) BEFREQ TO LIQAMT (0,5)
WINE (0,5) LIQ (0,5) BEAMT (1,5) WINAMT (1,5) LIQAMT (1,5)
TABLES = TOTAL, TOTALA, BEFREQ TO LIQAMT BY SEX/

STATISTICS ALL

READ INPUT DATA
FINISH

COMMENT CALCULATIONS TO GET KNOWLEDGE SCORE. (K2 eq 2) MEANS THAT THE CORRECT ANSWER IS “2” OR “NO,” for “wines are made from Fermenting grains” for QUESTION # 2. Since the answer is correct “1” point is added to the knowledge “SCORE.”
COMPUTE   SCORE=0
IF  (K1 EQ 1)  SCORE=SCORE+ 1
IF  (K2 EQ 2)  SCORE=SCORE +1
IF  (K3 EQ 2)  SCORE=SCORE + 1
IF  (K4 EQ 1)  SCORE=SCORE + 1
IF  (K5 EQ 2)  SCORE=SCORE + 1
IF  (K6 EQ 2)  SCORE=SCORE + 1
IF  (K7 EQ 2)  SCORE=SCORE + 1
IF  (K8 EQ 1)  SCORE=SCORE + 1
IF  (K9 EQ 1)  SCORE=SCORE + 1
IF  (K10 EQ 1)  SCORE =SCORE +1
IF  (K11 EQ 1)  SCORE=SCORE + 1
IF  (K12 EQ 1)  SCORE=SCORE + 1
IF  (K13 EQ 1)  SCORE=SCORE + 1
IF  (K14 EQ 2)  SCORE=SCORE + 1
IF  (K15 EQ 2)  SCORE=SCORE + 1
IF  (K16 EQ 1)  SCORE=SCORE + 1
IF  (K17 EQ 2)  SCORE =SCORE +1
IF  (K18 EQ 1)  SCORE=SCORE + 1
IF  (K19 EQ 1)  SCORE=SCORE + 1
IF  (K20 EQ 1)  SCORE=SCORE + 1
IF  (K21 EQ 1)  SCORE=SCORE + 1
IF  (K22 EQ 1)  SCORE=SCORE + 1
IF  (K23 EQ 2)  SCORE=SCORE + 1
IF  (K24 EQ 1)  SCORE=SCORE + 1
IF  (K25 EQ 2)  SCORE=SCORE + 1
IF  (K26 EQ 1)  SCORE=SCORE + 1
IF  (K27 EQ 2)  SCORE=SCORE + 1
IF  (K28 EQ 1)  SCORE=SCORE + 1
IF  (K29 EQ 1)  SCORE=SCORE + 1
IF  (K30 EQ 1)  SCORE=SCORE + 1
IF  (K31 EQ 2)  SCORE=SCORE + 1
IF  (K32 EQ 2)  SCORE=SCORE+ 1
IF  (K33 EQ 1)  SCORE=SCORE + 1
IF  (K34 EQ 1)  SCORE=SCORE + 1
IF  (K35 EQ 2)  SCORE=SCORE + 1
IF  (K36 EQ 1)  SCORE=SCORE + 1
IF  (SCORE LE 13)  SCORE1=1
IF  (SCORE GE 14 AND SCORE LT 17)  SCORE1=2
IF  (SCORE GE 17 AND SCORE LT 20)  SCORE1=3
IF  (SCORE GE 20 AND SCORE LT 23)  SCORE1=4
IF  (SCORE GE 23 AND SCORE LT 26)  SCORE1=5
IF  (SCORE GE 26)  SCORE1=6