
NLSY97 Appendix 1:

Education Variable Creation

YOUTH'S ENROLLMENT STATUS AS OF THE SURVEY DATE

Variables Created: CV_ENROLLSTAT

Variables Used

Name in Program	Question Name on CD	Name in Program	Question Name on CD
YS600	YSCH-600	YS4000	YSCH-4000
YS610	YSCH-610	YS15901	YSCH-15900.01
YS620	YSCH-620	YS11700	YSCH-11700
YS670	YSCH-670	YS26700	YSCH-26700
YS1600	YSCH-1600	YS13300	YSCH-13300
YS1800	YSCH-1800	YS28200	YSCH-28200
YS3500	YSCH-3500	PUBID	PUBID

Codes for Created Variable

1 = not enrolled, no dipl/GED	7 = not enrolled, graduate degree
2 = not enrolled, GED	8 = enrolled, grades 1-12
3 = not enrolled, HS Diploma	9 = enrolled, 2-year college
4 = not enrolled, some college	10 = enrolled, 4-year college
5 = not enrolled, 2 year college graduate	11 = enrolled, graduate program
6 = not enrolled, 4 year college graduate	

This program creates an enrollment status variable for each respondent.

```
***** PRELIMINARIES *****
encat = -4; /* Initialize */

*** CLEAR 'UNGRADED' RESPONSES;
if YS3500=95 then do;
  YS3500=.;
end;

*** CREATE NO DIPLOMA/GED INDICATOR;
if YS11700<1 and YS26700<1 and YS13300<1 and YS28200<1
then nodip=1;

*** CREATE HIGHEST GRADE EVER ATTENDED MEASURE;
HGA=max(YS3500,YS4000);

***** DETERMINE ENROLLMENT STATUS *****
enrolled = 1;
/* If not enrolled and not in summer school and not on summer break */
if (YS600=0 and YS610<1 and YS670<1)
then enrolled = 0;

/* If not enrolled or don't know and gave a reason for leaving school */
if (-2<=YS600<=0 and YS1600>0)
  then enrolled = 0;

*** NOT CURRENTLY ENROLLED ***;
if (enrolled = 0) then do;
  if nodip=1      /* No Diploma */
    then encat=1;

  if YS11700=1 or YS26700=1 /* Got a HS diploma */
    then encat=3;
```

```
/* Didn't get a HS Diploma and did get a GED */
if (YS11700 ne 1 and YS26700 ne 1) and (YS13300=1 or YS28200=1)
then encat=2;

/* Last school attended was some type of college */
if (YS1800=4 or YS1800=5)
then encat=4;
end;

*** CURRENTLY ENROLLED ***;
if (enrolled = 1) then do;

/* Attending grades 1 to 12 or attending college, don't know and HGA not college and no diploma */
if 1<=YS1800<=3 or ((YS1800>3 or YS1800=-2) and HGA<13 and nodip=1) then do;
    encat=8;
end;

/* Enrolled in 2 year college and current grade beyond High School */
if YS1800=4 and (95>max(YS3500,YS4000)>=13)
then encat=9;

/* Enrolled in 4 year college and current grade beyond High School */
if YS1800=5 and (95>max(YS3500,YS4000)>=13) then do;
    /* Working toward MA, Ph.d. or professional degree */
    if 4<=YS15901<=6 then encat=7;
    else encat=10;
end;
end;

***HAND EDITS;
***Listed "Summer Vacation" as reason for non-enrollment (YS1600=other);
if pubid=4585 then encat=4;
if pubid=4595 then encat=4;
if pubid=4621 then encat=4;
if pubid=8191 then encat=4;

***Listed in a business or nursing program;
if encat=., then do;
    nocat=1;
end;

endsas;
```

CURRENT OR MOST RECENT SCHOOL PRIVATE OR PAROCHIAL

Variables Created: CV_SCHOOL_TYPE

Variables Used

Name in Program	Question Name on CD
YS1800	YSCH-1800
YS3400	YSCH-3400

Codes for Created Variable

- 1 = Public school
- 2 = Parochial
- 3 = Private (non-parochial)
- 4 = Other
- 0 = Missing (Last school not grade 1-12 or description ("kind") missing)

This program identifies the type of school attended by the respondent. Users should note that school type is defined only for respondents attending grades 1-12.

```
schlcat=0;
if 1<=YS1800<=3 then do;
  if YS3400=1 then schlcat=1;
  else if 3<=YS3400<=4 then schlcat=2;
  else if YS3400=5 then schlcat=3;
  else if (YS3400=2 or YS3400=6 or YS3400=9) then schlcat=4;
  else if YS3400=-1 then schlcat=-1;
  else if YS3400=-2 then schlcat=-2;
end;

/* Type of school cannot be determined for respondents who say they are currently enrolled in college */

if YS1800>3 then do;
  schlcat=0;
end;

endsas;
```

Note:

There are 6 individuals who are not currently enrolled who provide no information for YS1800 and YS3400. Schlcat is set equal to missing for these respondents.

DATE RECEIVED DIPLOMA OR DEGREE

Variables Created: CV_GED
CV_HS_DIPLOMA

Variables Used

Name in Program	Question Name on CD	Name in Program	Question Name on CD
YS11700	YSCH-11700	YS26700	YSCH-26700
YS11900_M, _Y	YSCH-11900_M, _Y	YS26800_M, _Y	YSCH-26800_M, _Y
YS13300	YSCH-13300	YS28200	YSCH-28200
YS13500_M, _Y	YSCH-13500_M, _Y	YS28300_M, _Y	YSCH-28300_M, _Y

This program creates two continuous month variables, one identifying the month that the respondent received a GED and the other identifying the month that the respondent received a high school diploma. In future rounds, similar variables will calculate the month the respondent received an associate's, bachelor's, master's, doctoral, or professional degree; no respondents had received these degrees in round 1. For more information on the continuous month scheme, see appendix 7 in this document.

```

HSdate = -4;           /* Initialize */
GEDdate = -4;

/* Check if the respondent graduated from High School */

if (YS11700=1) and (YS119_Y > 0) and (YS119_M > 0)
then HSdate=((YS119_Y)-1980)*12 + YS119_M;
if (YS11700=1) and (YS119_Y > 0) and (YS119_M < 0)
then HSdate=((YS119_Y)-1980)*12 + 6; /* Missing defaults to June */

if (YS26700=1) and (YS268_Y > 0) and (YS268_M > 0)
then HSdate=((YS268_Y)-1980)*12 + YS268_M;
if (YS26700=1) and (YS268_Y > 0) and (YS268_M < 0)
then HSdate=((YS268_Y)-1980)*12 + 6; /* Missing defaults to June */

/* Check if the respondent received a GED */

if (YS13300=1) and (YS135_Y > 0) and (YS135_M > 0)
then GEDdate=((YS135_Y)-1980)*12 + YS135_M;
if (YS13300=1) and (YS135_Y > 0) and (YS135_M < 0)
then GEDdate=((YS135_Y)-1980)*12 + 6; /* Missing defaults to June */

if (YS28200=1) and (YS283_Y > 0) and (YS283_M > 0)
then GEDdate=((YS283_Y)-1980)*12 + YS283_M;
if (YS28200=1) and (YS283_Y > 0) and (YS283_M < 0)
then GEDdate=((YS283_Y)-1980)*12 + 6; /* Missing defaults to June */

endsas;

```

NUMBER OF GRADES REPEATED OR SKIPPED

Variables Created: CV_GRADES_REPEAT_EVER
CV_GRADE_SKIPPED_EVER

Variables Used

Name in Program	Question Name on CD	Name in Program	Question Name on CD
PINF015Y	PINF-015_Y	PC814601-02	PC8-146.01-.02
PC814101	PC8-141	PC814701-01	PC8-147.01-.02
PC814201-13	PC8-142_001-_013	PC814801-02	PC8-148.01-.02
PC814301	PC8-143		

This program creates variables counting the number of grades the respondent ever repeated or skipped based on information from the parent interview. If there was no parent interviewed, the variables are coded as valid skips (-4).

*****GRADES REPEATED SECTION*****

*CALCULATE THE TOTAL GRADES REPEATED AS OF INTERVIEW DATE

*<INITIALIZE EVERYONE TO ZERO>
COMPUTE GRRPET = 0.
IF (PINF015Y=-4) GRRPET = -4.
*<If there is a valid information on grades repeated, use it.

IF (PC814101<0) GRRPET=PC814101.
DO IF (PC814101>0) AND (GRRPET=0).
COUNT GRRPET= PC814201 PC814202 PC814203 PC814204 PC814205 PC814206 PC814207
PC814208 PC814209 PC814210 PC814211 PC814212 PC814213 (1 THRU HIGHEST).
END IF.

*****GRADES SKIPPED SECTION*****

*CALCULATE THE TOTAL GRADES SKIPPED AS OF INTERVIEW DATE

*<INITIALIZE EVERYONE TO ZERO>
COMPUTE GRSKIP= 0.
IF (PINF015Y=-4) GRSKIP = -4.
IF (PC814301<0) GRSKIP = PC814301.

* <SET KINDERGARTEN RESPONSES TO ZERO in order to compute the number of grades skipped, as the raw data recorded pre-K and Kindergarten as 90, 91, or 92>

DO IF (PC814601>=90).
COMPUTE PC814601=0.
END IF.
DO IF (PC814602>=90).
COMPUTE PC814602=0.
END IF.

*<If there is a valid information on grades skipped, use it.>

IF (PC814601=-1 OR PC814701=-1 OR PC814602=-1 OR PC814702=-1) GRSKIP=-1.
IF (PC814601=-2 OR PC814701=-2 OR PC814602=-2 OR PC814702=-2) GRSKIP=-2.
DO IF (PC814301=1 AND GRSKIP=0).
COMPUTE SKIP1= (PC814701-PC814601).
COMPUTE SKIP2= (PC814702-PC814602).

- * <If a skip is indicated, but the result is invalid (i.e., negative number) OR if two skips are indicated but the start of the second skip a lower grade than indicated on the first skip (i.e., the first loop indicated the youth skipped the second grade but the second loop shows the student in the second grade), THEN the skip will be coded as an invalid skip.>

IF (PC814701<PC814601 AND PC814601>0) SKIP1=-3.
IF (PC814602>PC814702 AND PC814602>0) SKIP2=-3.
IF ((PC814602<PC814601 OR PC814602>PC814701) AND PC814602>0) SKIP2=-3.

- * <As noted above, grades skipped are calculated with the assumption of an end-of-year skip. For example, the youth successfully completes the second (2) grade at the end of the school year, but begins the fourth (4) grade at the beginning of the following academic year. In this case, the calculation of this raw data into SKIP1 (or SKIP2) would erroneously indicate a 2-grade skip. To account for this, results indicating skipping more than one grade are decreased by one to more accurately portray the number of grades skipped.>

```
IF (SKIP1>1) SKIP1=SKIP1 - 1.  
IF (SKIP2>1) SKIP2=SKIP2 - 1.  
END IF.  
DO IF (SKIP1=0 OR SKIP2=0).  
COMPUTE CHECK=1.  
ELSE.  
COMPUTE CHECK=0.  
END IF.  
DO IF (SKIP1>=0 AND SKIP2>=0).  
COMPUTE GRSKIP=SKIP1+SKIP2.  
ELSE IF (SKIP1>0 AND SKIP2=-3).  
COMPUTE GRSKIP=SKIP1.  
ELSE IF (SKIP1=-3 AND SKIP2>0).  
COMPUTE GRSKIP=SKIP2.  
END IF.  
  
EXECUTE.
```

HIGHEST GRADE COMPLETED AS OF THE SURVEY DATE

Variables Created: CV_HGC_EVER

Variables Used

Name in Program	Question Name on CD
YS5000	YSCH-5000

Codes for Created Variable

- 1-20 = actual grade completed
- 0 = valid skip/missing/none
- 95 = ungraded

This variable is essentially a straight pick-up with some minor modifications. Individuals who skip this portion of the survey because they are never enrolled (e.g. if home schooled) are put in category 0. These are valid skips (-4) in the raw data. A respondent currently enrolled in (but not having completed) grade 1 will also report a highest grade completed = 0.

```
HGC=0;  
if -3<=YS5000<=95 then HGC=YS5000;  
endsas;
```

HIGHEST DEGREE RECEIVED AS OF THE SURVEY DATE

Variables Created: CV_HIGHEST_DEGREE_EVER

Variables Used

Name in Program	Question Name on CD	Name in Program	Question Name on CD
YS600	YSCH-600	YS4000	YSCH-4000
YS610	YSCH-610	YS15901	YSCH-15900.01
YS620	YSCH-620	YS11700	YSCH-11700
YS670	YSCH-670	YS26700	YSCH-26700
YS1600	YSCH-1600	YS13300	YSCH-13300
YS1800	YSCH-1800	YS28200	YSCH-28200
YS3500	YSCH-3500		

Codes for Created Variable

0 = none	4 = Bachelors
1 = GED	5 = Masters
2 = HS Diploma	6 = Doctoral
3 = Associates	7 = Professional

This program identifies the highest degree or diploma received by the respondent. In round 1, no respondent had completed a degree higher than a high school diploma and/or GED. Therefore, in practice, the range of actual values is limited to [0,2].

*** Initialize Everyone to NO DIPLOMA/GED INDICATOR;

degree=0;

*** CREATE GED INDICATOR;

if YS13300=1 or YS28200=1 then do;
 degree=1;
end;

*** CREATE HS DIPLOMA INDICATOR;

if YS11700=1 or YS26700=1 then do;
 degree=2;
end;

endsas;

NUMBER OF SCHOOLS ATTENDED, NUMBER OF RESIDENCES

Variables Created: CV_SCH_ATTEND_YR
CV_RESIDENCES_TTL

Variables Used

Name in Program	Question Name on CD	Name in Program	Question Name on CD
PINF015Y	PINF-015_Y	PC8043	PC8-043
PC8097	PC8-097	PUBID	PUBID
PC812801-09	PC8-128.01-09		

This program calculates the number of schools ever attended by the respondent and the number of residences in which youth has ever lived. Both of these variables are created with information from the parent interview. If no parent was interviewed (as indicated by PINF015Y), the created variables are coded as valid skips (-4).

The schools attended variable is calculated by adding up all the valid responses on each loop of information. If the youth has never attended school, as indicated by PC8097, then SCHLSATT is coded as zero (no schools attended). If the initial question (PC8-128) has a response of don't know or refused (-1 or -2), then SCHLSATT is coded as such. Number of different residences lived since 12th birthday utilizes the data from PC8043. Valid skip, refused, and don't know responses are coded as such in the created variable.

*****SCHOOLS ATTENDED SECTION*****

*<Initialize everyone to zero>
COMPUTE SCHLSATT = 0.
IF (PC812801=-4) SCHLSATT = -4.

*<If there is a valid information on schools attended, use it.
DO IF (SCHLSATT<=0).
COUNT NUMSCHLS= PC812801 PC812902 PC812903 PC812904 PC812905 PC812906 PC812907
PC812908 PC812909 (0 THRU HIGHEST).
COMPUTE SCHLSATT=NUMSCHLS.
IF (PC8097=99 AND NUMSCHLS<1) SCHLSATT=0.
END IF.
IF (PINF015Y=-4) SCHLSATT = -4.
IF (PC812801=-1 OR PC812801=-2) SCHLSATT=PC812801.

*****NUMBER OF DIFFERENT RESIDENCES LIVED SINCE YOUTH'S 12TH BIRTHDAY SECTION****

*Calculate the number of different residences lived since youth's 12th birthday as of interview date

*<Initialize everyone to RSLIVED=1>
COMPUTE RSLIVED=1.
IF (PINF015Y=-4) RSLIVED = -4.
IF (PC8043=-4) RSLIVED = -4.

*<If there is a valid information on residences lived, use it.
DO IF (PC8043>=0).
COMPUTE RSLIVED=RSLIVED+PC8043.
ELSE IF (PC8043<0) AND (PC8043>-4).
COMPUTE RSLIVED=PC8043.
END IF.

EXECUTE.

TOTAL FRACTION OF CREDITS EARNED TOWARDS BACHELORS/ASSOCIATE DEGREE

Variables Created: CV_BA_CREDITS
CV_ASSOC_CREDITS

Variables Used

Name in Program	Question Name on CD
PUBID	PUBID
YS1800	YSCH-1800
totcr	YSCH-1600.01
earnrcr	YSCH-22800.01

Codes for Created Variable

These variables are created on a continuous scale. They have 2 implied decimal places.

This program calculates the fraction of credits the respondent has completed toward an associate's degree or a bachelor's degree. YS1800 (Type of School) is used to determine the type of degree sought because degree type is not specifically asked in the survey. The default value is set to -4. This variable is only created for those possibly enrolled in some form of college (YS1800>=4) regardless of created enrollment status. For individuals currently enrolled in a college who have not yet started taking their first classes, questions YS16001 and YS22801 have valid skips. Therefore, the default in this case is set to 0.

```
*** INITIALIZE VARIABLES;
bachfrac=-4;
assfrac=-4;

/* Compute fraction for respondents attending a 2 year college */
if YS1800=4 then do;
    assfrac=0;          /* Initialize to zero for those enrolled */
    if totcr=-1 or earnrcr<=-1 then do;
        assfrac=-1; end;
    if totcr=-2 or earnrcr=-2 then do;
        assfrac=-2; end;
    if totcr=-3 or earnrcr=-3 then do;
        assfrac=-3; end;
    if totcr>0 and earnrcr>0 then do;
        assfrac=(earnrcr/totcr)*100; end;
    end;
assfrac=round(assfrac,1);

/* Compute fraction for respondents attending a 4 year college */
if YS1800=5 then do;
    bachfrac=0;          /* Initialize to zero for those enrolled */
    if totcr=-1 or earnrcr=-1 then do;
        bachfrac=-1; end;
    if totcr=-2 or earnrcr=-2 then do;
        bachfrac=-2; end;
    if totcr>0 and earnrcr>0 then do;
        bachfrac=(earnrcr/totcr)*100; end;
    end;
bachfrac=round(bachfrac,1);

/* HAND EDITS Both individuals are finishing high school dipl./GED at a 2-year college */
if pubid=5901 or pubid=7652 then assfrac=-4;

endsas;
```

YOUTH'S MATH PIAT SCORE

Variables Created: CV_PIAT_STANDARD_SCORE
CV_PIAT_PERCENTILE_SCORE

Variables Used

Name in Program	Question Name on CD
I900D, M, Y	YINF-900_D, _M, _Y
DOB01D, M, Y	KEY!BDATE_D, _M, _Y
PIATRAW	PIAT_RAW_SCORE_REVISED

This program calculates the respondent's age utilizing the interview date information and the respondent's date of birth information. It then uses the age data and the raw PIAT score to create a standard PIAT score and percentile rank for each respondent.

*****INTERVIEW DATE SECTION (CONTINUOUS MONTHS FORMAT)*****

*<INITIALIZE EVERYONE TO VALID SKIP>

```
COMPUTE INTDAY = -4.  
COMPUTE INTMONTH = -4.  
COMPUTE INTYEAR = -4.
```

```
DO IF (I900M >=0) AND (I900D >=0).  
    COMPUTE INTDAY=I900D.  
    COMPUTE INTMONTH=I900M.  
    COMPUTE INTYEAR=I900Y.  
    COMPUTE CONTMINT=((INTYEAR-1980)*12)+INTMONTH.  
END IF.
```

*****RESPONDENT AGE SECTION*****

*<If there is a valid date of birth for respondent, use it.>

```
COMPUTE DOBDAY = DOB01D.  
COMPUTE DOBMONTH = DOB01M.  
COMPUTE DOBYEAR = DOB01Y.
```

*<Ensure all respondents have an in range value.>

```
IF (DOBDAY < 0) DOBDAY = 15.  
IF (DOBMONTH < 0) DOBMONTH = 6.  
IF (DOBYEAR < 1970) DOBYEAR = 1983.
```

*<CALCULATE THE YOUTH'S AGE IN CONTINUOUS MONTHS>

```
COMPUTE YAGEMNTH=((INTYEAR - DOBYEAR)*12)+(INTMONTH - DOBMONTH).  
IF (INTDAY-DOBDAY<0) YAGEMNTH=YAGEMNTH-1.
```

/* At this point the program loops through each three-month age range and assigns appropriate standard scores based on the respondent's raw score. This code is quite lengthy and is not reproduced here; instead, we include a table that provides the standard score and percentile rank associated with each raw score in each age range. Users who need the precise programming code should contact NLS User Services. */

Appendix 1: Education Variable Creation

Standard Score	Percentile Rank	Raw Score by Age Range (Years-Months)												
		12-0 to 12-2	12-3 to 12-5	12-6 to 12-8	12-9 to 12-11	13-0 to 13-2	13-3 to 13-5	13-6 to 13-8	13-9 to 13-11	14-0 to 14-2	14-3 to 14-5	14-6 to 14-8	14-9 to 14-11	
55	0	27	28	29	29	30	31	32	33	34	35	36	37	38
56	0				30	31	32	33	34	35	36	37	38	
57	0	28	29	30	31	32	33	34	35	36	37	38	39	
58	0	29	30	31	32	33	34	35	36	37	38		40	
59	0	30	31	32	33	34	35	36	37			39		
60	0	31	32	33	34	35	36			38	39	40	41	
61	0	32	33	34	35	36	37	38	39	40	41	42		
62	1	33	34	35	36	37		38	39	40	41	42	43	
63	1	34	35	36	37		38	39	40	41	42	43	44	
64	1	35	36	37	38	38	39	40	41	42	43	44	45	
65	1		37	38		39	40	41	42	43	44	45	46	
66	1	36			39	40	41	42	43	44	45	46	47	
67	1	37	38	39	40	41	42	43	44	45	46	47	48	
68	2	38	39	40	41	42	43	44	45	46	47	48	49	
69	2	39	40	41	42	43	44	45	46	47	48	49	50	
70	2	40	41	42	43	44	45	46	47	48	49	50	51	
71	3	41	42	43	44	45	46	47	48	49	50	51	52	
72	3	42	43	44	45	46	47	48	49	50	51	52	53	
73	4	43	44	45	46	47	48	49	50	51	52	53	54	
74	4	44	45	46	47	48	49	50	51	52	53	54	55	
75	5		46	47	48	49	50	51	52	53	54	55	56	
76	5	45	47	48	49	50	51	52	53	54	55	56	57	
77	6	46		49	50		52		54		56			
78	7	47	48	50	51	51	53	53	55	55	57	57	58	
79	8	48	49			52		54		56		58	59	
80	9	49	50	51	52	53	54	55	56	57	58	59	60	
81	10	50	51	52	53	54	55	56	57	58	59	60	61	
82	12	51	52	53	54	55	56	57	58	59	60	61	62	
83	13		53	54	55	56	57	58	59	60	61	62	63	
84	14	52	54	55	56	57	58	59	60	61	62	63	64	
85	16	53		56	57	58	59	60	61	62	63	64	65	
86	18	54	55	57	58	59	60	61	62	63	64	65	66	
87	19	55	56								65			
88	21	56	57	58	59	60	61	62	63	64		66	67	
89	23		58	59	60	61	62	63	64	65	66	67	68	
90	25	57		60	61	62	63	64	65	66	67	68	69	
91	27	58	59					65	66	67	68	69	70	
92	30	59	60	61	62	63	64				69			
93	32			62	63	64	65	66	67	68		70	71	
94	34	60	61		64	65	66	67	68	69	70	71	72	
95	37	61	62	63				68	69	70	71	72	73	
96	39		63	64	65	66	67							
97	42	62			66	67	68	69	70	71	72	73	74	
98	45	63	64	65			69	70	71	72	73	74	75	
99	47		65	66	67	68								
100	50	64		67	68	69	70	71	72	73	74	75	76	

Appendix 1: Education Variable Creation

Standard Score	Percentile Rank	Raw Score by Age Range (Years-Months)												
		12-0 to 12-2	12-3 to 12-5	12-6 to 12-8	12-9 to 12-11	13-0 to 13-2	13-3 to 13-5	13-6 to 13-8	13-9 to 13-11	14-0 to 14-2	14-3 to 14-5	14-6 to 14-8	14-9 to 14-11	
101	53	65	66				71	72	73	74	75	76	77	
102	55		67	68	69	70	72	73	74	75	76	77	78	
103	58	66	68	69	70	71			75			78		
104	61	67		70	71	72	73	74		76	77		79	
105	63	68	69		72	73	74	75	76	77	78	79	80	
106	66	69	70	71		74	75	76	77	78	79	80	81	
107	68		71	72	73		76	77	78	79	80	81	82	
108	70	70	72	73	74	75	77	78	79	80	81	82	83	
109	73	71		74	75	76				81	82	83		
110	75	72	73	75	76	77	78	79	80	82	83	84	84	
111	77	73	74	76	77	78	79	80	81				85	
112	79	74	75		78	79	80	81	82	83	84	85	86	
113	81	75	76	77	79	80	81	82	83	84	85	86	87	
114	82	76	77	78	80	81	82	83	84	85	86	87	88	
115	84		78	79		82	83	84	85	86	87	88	89	
116	86	77	79	80	81	83	84	85	86	87	88	89	90	
117	87	78	80	81	82	84	85	86	87	88	89	90	91	
118	88	79		82	83		86	87	88	89	90	91	92	
119	90	80	81	83	84	85	87	88	89	90	91	92	93	
120	91	81	82	84	85	86	88	89	90	91	92	93	94	
121	92		83		86	87		90	91	92	93	94	95	
122	93	82	84	85	87	88	89	91	92	93	94	95	96	
123	94	83	85	86		89	90							
124	95	84	86	87	88	90	91	92	93	94	95	96	97	
125	95	85		88	89		92	93	94	95	96	97	98	
126	96	86	87	89	90	91	93	94	95	96	97	98	99	
127	96		88		91	92		95	96	97	98	99	100	
128	97	87	89	90	92	93	94	96	97	98	99	100		
129	97	88	90	91		94	95							
130	98	89	91	92	93	95	96	97	98	99	100			
131	98	90		93	94		97	98	99	100				
132	98		92		95	96	98	99	100					
133	99	91	93	94	96	97		100						
134	99	92	94	95	97	98	99							
135	99	93		96		99	100							
136	99	94	95	97	98	100								
137	99		96	98	99									
138	99	95	97		100									
139	100	96	98	99										
140	100	97		100										
141	100	98	99											
142	100		100											
143	100	99												
144	100	100												

Appendix 1: Education Variable Creation

Standard Score	Percentile Rank	Raw Score by Age Range (Years-Months)												
		15-0 to 15-2	15-3 to 15-5	15-6 to 15-8	15-9 to 15-11	16-0 to 16-2	16-3 to 16-5	16-6 to 16-8	16-9 to 16-11	17-0 to 17-2	17-3 to 17-5	17-6 to 17-8	17-9 to 17-11	
55	0	28	29	30	31	32	33	34	35	36	37	38	39	40
56	0	39	40	41	42		43	44	45	46	47	48	49	50
57	0	40	41	42		43	44	45	46		47	48	49	50
58	0	41	42	43	43	44	45	46	46	46	47	47	48	
59	0		43		44	45	46	47	47	47	48	48		
60	0	42		44	45	46	47		48	48		49	49	49
61	0	43	44	45	46	47	48	48	49	49	49	50	50	
62	1	44	45	46	47	48	49	49	50	50	50		50	51
63	1	45	46	47	48	49	50	50	50	51	51	51	51	52
64	1	46	47	48	49	50	51	51	52	52	52	52	52	
65	1	47	48	49	50	51		52		53	53	53	53	53
66	1	48	49	50	51	52	52	53	53	54	54	54	54	54
67	1	49	50	51	52	53	53	54	54	55	55	55	55	55
68	2	50	51	52	53		54	55	55	56	56	56	56	56
69	2	51	52	53	54	54	55	56	56	57	57	57	57	57
70	2	52	53	54	55	55	56	57	57	58	58	58	58	58
71	3	53	54	55	56	56	57	58	58		59	59	59	59
72	3	54	55	56	57	57	58	59	59	59	60	60	60	60
73	4	55	56	57	58	58	59	60	60	60	60	61	61	61
74	4	56	57	58	58	59	60	61	61	61	61	62	62	62
75	5	57	58		59	60	61		62	62	63	63	63	63
76	5	58	59	59	60	61	62	62	63	63	64	64	64	64
77	6			60	61	62	63	63	64	64	65	65	65	65
78	7	59	60	61	62	63	64	64	65	65	66	66	66	66
79	8	60	61	62	63	64	65	65	66	66		67	67	
80	9	61	62	63	64	65		66		67	67	68	68	68
81	10	62	63	64	65		66	67	67	68	68			
82	12	63	64	65	66	66	67	68	68	69	69	69	69	69
83	13	64	65	66		67	68	69	69		70	70	70	70
84	14	65	66	67	67	68	69	70	70	70	71	71	71	71
85	16	66	67		68	69	70		71	71	72	72	72	72
86	18	67		68	69	70	71	71	72	72		73	73	
87	19		68	69	70	71		72		73	73	74	74	
88	21	68	69	70	71	72	72	73	73	74	74	75	75	
89	23	69	70	71	72		73	74	74	75	75			
90	25	70	71	72		73	74		75			76	76	
91	27				73	74		75		76	76	77	77	
92	30	71	72	73	74	75	75	76	76	77	77	78	78	
93	32	72	73	74	75		76	77	77	78	78			79
94	34	73	74	75		76	77		78		79	79		
95	37	74	75		76	77		78	79	79	80	80	80	
96	39			76	77	78	78	79		80		81	81	
97	42	75	76	77			79		80		81		82	
98	45	76	77		78	79	80	80	81	81	82	82		
99	47				78	79	80		81		82		83	83
100	50	77	78	79	80		81	82	82	83	83	84	84	

Appendix 1: Education Variable Creation

Standard Score	Percentile Rank	Raw Score by Age Range (Years-Months)											
		15-0 to 15-2	15-3 to 15-5	15-6 to 15-8	15-9 to 15-11	16-0 to 16-2	16-3 to 16-5	16-6 to 16-8	16-9 to 16-11	17-0 to 17-2	17-3 to 17-5	17-6 to 17-8	17-9 to 17-11
101	53	78	79	80		81	82		83		84		85
102	55	79	80		81	82		83	84	84	85	85	
103	58			81	82	83	83	84		85		86	86
104	61	80	81	82	83		84	85	85	86	86	87	87
105	63	81	82	83	84	84	85		86	87	87		88
106	66	82	83	84		85	86	86	87		88	88	89
107	68	83	84		85	86		87	88	88	89	89	90
108	70	84	85	85	86	87	87	88		89	90	90	
109	73			86	87		88	89	89	90		91	91
110	75	85	86	87	88	88	89	90	90	91	91	92	92
111	77	86	87	88	89	89	90	91	91	92	92	93	93
112	79	87	88	89	90	90	91	92	92	93	93	94	94
113	81	88	89	90	91	91	92		93	94	94	95	95
114	82	89	90	91	92	92	93	93	94	95	95	96	96
115	84	90	91	92	93	93	94	94	95		96	97	97
116	86	91	92	93	94	94	95	95	96	96	97	98	98
117	87	92	93	94		95	96	96	97	97	98		99
118	88	93	94	95	95	96		97	98	98	99	99	100
119	90	94	95	96	96	97	97	98	99	99	100	100	
120	91	95	96		97	98	98	99		100			
121	92	96		97	98		99	100	100				
122	93	97	97	98	99	99	100						
123	94		98	99		100							
124	95	98	99	100	100								
125	95	99	100										
126	96	100											

Note: This table of *PIAT* scores is based on the information provided by the testing company. Users interested in more information about the *PIAT-Math Assessment* may wish to consult the following reference:

Markwardt, Frederick C. Jr. *Peabody Individual Achievement Test-Revised*. Circle Pines, Minn.: American Guidance Service, Inc., 1989.

QED DATA: SCHOOL SIZE AND STUDENT-TEACHER RATIO

Variables Created: CV_SCHOOL_SIZE
CV_STUDENT_TEACHER_RATIO

Variables Used

Name in Program	Question Name on CD
TYPESCH	YSCH-1800
CONTROL	YSCH-3400
GRADE	YSCH-3500
PUBID	PUBID
REGION	CV_CENSUS_REGION

Codes for Created Variable

School Size	Student-teacher ratio
1 = <100	1 = <14
2 = 100-299	2 = 14-17
3 = 300-499	3 = 18-21
4 = 500-749	4 = 22+
5 = 750-999	
6 = 1000+	

This program merges school identification information from the NLSY97 data with data from the “National Education Database,” provided under copyright by Quality Education Data (QED), Inc. It then creates two variables that provide information about the respondent’s school.

```
if CONTROL=999 then CONTROL=9;
SCHSIZE=-4;
STUDTEAC=-4;

/* Create SCHSIZE AND STUDTEAC while checking that the grade reported in the QED coincides with that
being reported in the NLSY97 */

if GRADSPAN='2' then GRADSPAN='3';
if GRADSPAN='A' then GRADSPAN='2';
if GRADSPAN='B' or GRADSPAN='C' or GRADSPAN='D' or GRADSPAN='E' or GRADSPAN='*' then
GRADSPAN='0';

dummy1=0; dummy4=0; dummy5=0; dummy6=0; dummy7=0; dummy8=0; dummy9=0; dummy10=0;

if GRADE ge 1 and GRADE le 3 then do;
dummy1=1; dummy4=1; dummy5=1; dummy6=0; dummy7=0; dummy8=0; dummy9=0; dummy10=0;
end;

if GRADE ge 4 and GRADE le 6 then do;
dummy1=1; dummy4=1; dummy5=1; dummy6=1; dummy7=0; dummy8=0; dummy9=0; dummy10=0;
end;

if GRADE ge 7 and GRADE le 8 then do;
dummy1=1; dummy4=0; dummy5=1; dummy6=1; dummy7=1; dummy8=1; dummy9=0; dummy10=0;
end;

if GRADE eq 9 then do;
dummy1=1; dummy4=0; dummy5=0; dummy6=0; dummy7=1; dummy8=0; dummy9=1; dummy10=0;
end;
```

Appendix 1: Education Variable Creation

```
if GRADE ge 10 and GRADE le 12 then do;
dummy1=1; dummy4=0; dummy5=0; dummy6=0; dummy7=0; dummy8=1; dummy9=1; dummy10=1;
end;

if GRADSPAN='1' and dummy1=1 then correct=1;
if GRADSPAN='4' and dummy4=1 then correct=1;
if GRADSPAN='5' and dummy5=1 then correct=1;
if GRADSPAN='6' and dummy6=1 then correct=1;
if GRADSPAN='7' and dummy7=1 then correct=1;
if GRADSPAN='8' and dummy8=1 then correct=1;
if GRADSPAN='9' and dummy9=1 then correct=1;
if GRADSPAN='2' and dummy10=1 then correct=1;
else correct=0;

/* If the grades reported in the QED and the NLSY97 do not coincide, both created variables equal -3; otherwise,
create them according to the definition provided at the top of the program */

if correct=0 then SCHSIZE=-3;
if correct=0 then STUDTEAC=-3;

if STUDRANG=0 or STUDRANG=1 then SCHSIZE=1;
if STUDRANG=2 then SCHSIZE=2;
if STUDRANG=3 then SCHSIZE=3;
if STUDRANG=4 then SCHSIZE=4;
if STUDRANG=5 then SCHSIZE=5;
if STUDRANG=6 or STUDRANG=7 then SCHSIZE=6;
if STUDRANG=. then SCHSIZE=-3;

if STUDENT1 gt 0 and TEACHERS gt 0 then STUDTEA1=STUDENT1/TEACHERS;
if STUDTEA1 lt 14 then STUDTEAC=1;
if STUDTEA1 ge 14 and STUDTEA1 lt 18 then STUDTEAC=2;
if STUDTEA1 ge 18 and STUDTEA1 lt 22 then STUDTEAC=3;
if STUDTEA1 ge 22 then STUDTEAC=4;
if STUDTEA1 eq . then STUDTEAC=-3;

/* Verify that there are not five or fewer schools in each cell (determined by the region, type of school, control, school
size and the student-teacher ratio) to avoid any possibility of identifying a school. Assign -3 to the created variables
for schools that fall in cells of five or fewer schools. */

data three;
set two;
INDEX=REGION2||TYPESCH||CONTROL||SCHSIZE||STUDTEAC;
proc freq;
tables REGION2*TYPESCH*CONTROL*SCHSIZE*STUDTEAC / OUT=A;
proc freq data=A;
tables COUNT;
data A;
set A;
INDEX=REGION2||TYPESCH||CONTROL||SCHSIZE||STUDTEAC;

data four;
set four;
if COUNT le 5 then SCHSIZE=-3;
if COUNT le 5 then STUDTEAC=-3;
proc freq;
endsas;
```

