
Subject: Re: question on net attendance rate (NAR)
Posted by [Liz-DHS](#) on Thu, 31 Oct 2013 19:40:54 GMT
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Dear User,

I am not a programmer, but here is some code from our standard tables to calculate School Attendance Ratios. It's in CSPro, but may provide some guidance by looking at some of the logic.

```
crosstab float(1) t213 hv025w+hv024w+hv270w+total attrat*(hhsex+total+gparity) schlev  
exclude(rowzero,colzero,percents,totals,specval)
```

```
title( "Table 2.13 School attendance ratios", " ",  
      "Net attendance ratios (NAR) and gross attendance ratios (GAR)",  
      "for the de facto household population by sex and level of schooling; and the",  
      "Gender Parity Index (GPI), according to background characteristics, Country 2011" )  
stub( "Background characteristic" );
```

```
{ table 2.13, 2.13a (figure 2.2) }
```

```
{ adjust the the country's CMC school year when the survey goes across two school calendar  
years }
```

```
cmceducf = cmceduci;  
if HV008 >= cmceduci+12 then cmceducf = cmceduci + 12 endif;  
for i in RECH1_EDT do  
  hhsex = HV104;  
  hsex = HV104;  
  { calculate age at the beginning of country's school year }  
  if cmcbirth(i) <> 0 then  
    ageatsch = int( (cmceducf-cmcbirth(i)) / 12 );  
  else  
    { impute an age at the beginnig of the school year when CMC of birth unknown }  
    xtemp = HV008 - HV105*12;  
    cmctemp = random( xtemp-11, xtemp );  
    ageatsch = int( (cmceducf-cmctemp) / 12 );  
  endif;  
  if HV103 = 1 & HV105 in 5:24 then { de facto population 5-24 ( !! check if country asks for  
6-24) }  
    { !! check primary school age for the country and adjust it }  
    if ageatsch in 7:12 then  
      schlev = 1; { primary }  
      attrat = 2; { denominator kids 7-12 for gross }  
      xtab( t213w, rweight );  
      attrat = 1; { denominator kids 7-12 for net }  
      xtab( t213w, rweight );  
      if HV122 = 1 then { in primary }  
        xtab( t213, rweight ); { numerator 7-12 for net }
```

```

endif;
endif;
{ !! check secondary school age for the country and adjust it }
if ageatsch in 13:18 then
  schlev = 2;           { secondary }
  attrat = 2;          { denominator kids 13-18 for gross }
  xtab( t213w, rweight );
  attrat = 1;          { denominator kids 13-18 for net }
  xtab( t213w, rweight );
  if HV122 = 2 then    { in secondary }
    xtab( t213, rweight );    { numerator 13-18 for net }
  endif;
endif;
{ numerator all in school for gross attendance ratio }
schlev = notappl;
attrat = 2;
if HV122 = 1 then     { in primary }
  schlev = 1;
elseif HV122 = 2 then { in secondary }
  schlev = 2;
endif;
xtab( t213, rweight );

{ table 2.13a for figure 2.2 }
agehhs = HV105;
colt213a = 2;
xtab( t213a, rweight );
if HV121 in 1,2 & HV122 <> 0 then
  colt213a = 1;
  xtab( t213a, rweight );
endif;
endif;           { end de facto 5-24 }
enddo;

```