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*          scoring algorithm for the KIDSCREEN-27 self report version         *
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*     1) uses transformed KIDSCREEN item-scores (transformed e.g. by a priori  *
*        application of the syntax "transform_KIDSCREEN-27_rawdata.SPS")       *
*     2) based on the RASCH-Person-Parameter Estimates                         *
*     3) T-values were computed wich refer to the entire KIDSCREEN survey      *
*       (excluded were Ireland, cases older than 18, younger than 8, > 25%     *
*        missings in KIDSCREEN items, with any missing in the particular scale)*
*     4) for the entire European sample the mean of the T-values is 50, the    *
*        standard deviation is 10                                              *
*******************************************************************************



RECODE
  KY27PHY1
  (5=3)  (1 thru 2=1)  (3 thru 4=2)  (ELSE=Copy)  INTO  KY27PHYc .
VARIABLE LABELS KY27PHYc 'gh_y01 coll 1 + 2 & 3 + 4 & 5'.
EXECUTE .
MISSING VALUES KY27PHYc (0 +  6 thru 99999) .
EXECUTE .




COMPUTE KC27ph_R  = (KY27PHYc + KY27PHY2 + KY27PHY3 + KY27PHY4 + KY27PHY5 ) .
EXECUTE .

COMPUTE KC27pw_R  = (KY27PWB1 + KY27PWB2 + KY27PWB3 + KY27PWB4 + KY27PWB5 +
KY27PWB6 + KY27PWB7 ) .
EXECUTE .

COMPUTE KC27pa_R  = (KY27PAR1 + KY27PAR2 + KY27PAR3 + KY27PAR4 + KY27PAR5 +
KY27PAR6 + KY27PAR7 ) .
EXECUTE .

COMPUTE KC27pe_R  = (KY27SOC1 + KY27SOC2 + KY27SOC3 + KY27SOC4 ) .
EXECUTE .

COMPUTE KC27sc_R  = (KY27SCH1 + KY27SCH2 + KY27SCH3 + KY27SCH4 ) .
EXECUTE .



RECODE KC27ph_R
(     5     =     -4.287      )
(     6     =     -3.040      )
(     7     =     -2.405      )
(     8     =     -1.960      )
(     9     =     -1.605      )
(     10    =     -1.296      )
(     11    =     -1.011      )
(     12    =     -0.735      )
(     13    =     -0.456      )
(     14    =     -0.168      )
(     15    =     0.134 )
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(     16    =     0.454 )
(     17    =     0.796 )
(     18    =     1.166 )
(     19    =     1.574 )
(     20    =     2.035 )
(     21    =     2.582 )
(     22    =     3.299 )
(     23    =     4.594 )
INTO KC27ph_R   .
EXECUTE .

RECODE KC27pw_R
(     7     =     -4.472      )
(     8     =     -3.292      )
(     9     =     -2.705      )
(     10    =     -2.299      )
(     11    =     -1.982      )
(     12    =     -1.718      )
(     13    =     -1.489      )
(     14    =     -1.284      )
(     15    =     -1.096      )
(     16    =     -0.920      )
(     17    =     -0.752      )
(     18    =     -0.590      )
(     19    =     -0.431      )
(     20    =     -0.273      )
(     21    =     -0.114      )
(     22    =     0.049 )
(     23    =     0.216 )
(     24    =     0.391 )
(     25    =     0.576 )
(     26    =     0.774 )
(     27    =     0.989 )
(     28    =     1.224 )
(     29    =     1.485 )
(     30    =     1.778 )
(     31    =     2.112 )
(     32    =     2.504 )
(     33    =     2.985 )
(     34    =     3.642 )
(     35    =     4.886 )
INTO KC27pw_R  .
EXECUTE .

RECODE KC27pa_R
(     7     =     -4.053      )
(     8     =     -2.887      )
(     9     =     -2.312      )
(     10    =     -1.915      )
(     11    =     -1.607      )
(     12    =     -1.353      )
(     13    =     -1.136      )
(     14    =     -0.944      )
(     15    =     -0.772      )
(     16    =     -0.614      )
(     17    =     -0.468      )
(     18    =     -0.330      )
(     19    =     -0.199      )
(     20    =     -0.072      )
(     21    =     0.052 )
(     22    =     0.174 )
(     23    =     0.297 )
(     24    =     0.421 )
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(     25    =     0.548 )
(     26    =     0.681 )
(     27    =     0.821 )
(     28    =     0.973 )
(     29    =     1.140 )
(     30    =     1.330 )
(     31    =     1.552 )
(     32    =     1.824 )
(     33    =     2.184 )
(     34    =     2.721 )
(     35    =     3.852 )
INTO KC27pa_R   .
EXECUTE .

RECODE KC27pe_R
(     4     =     -4.054      )
(     5     =     -2.832      )
(     6     =     -2.193      )
(     7     =     -1.725      )
(     8     =     -1.335      )
(     9     =     -0.989      )
(     10    =     -0.667      )
(     11    =     -0.358      )
(     12    =     -0.051      )
(     13    =     0.261 )
(     14    =     0.586 )
(     15    =     0.932 )
(     16    =     1.313 )
(     17    =     1.744 )
(     18    =     2.261 )
(     19    =     2.953 )
(     20    =     4.232 )
INTO KC27pe_R   .
EXECUTE .

RECODE KC27sc_R
(     4     =     -4.136      )
(     5     =     -2.906      )
(     6     =     -2.286      )
(     7     =     -1.846      )
(     8     =     -1.485      )
(     9     =     -1.161      )
(     10    =     -0.852      )
(     11    =     -0.540      )
(     12    =     -0.212      )
(     13    =     0.144 )
(     14    =     0.536 )
(     15    =     0.970 )
(     16    =     1.450 )
(     17    =     1.984 )
(     18    =     2.588 )
(     19    =     3.339 )
(     20    =     4.649 )
INTO KC27sc_R   .
EXECUTE .



Compute KC27ph_T = (((KC27ph_R - 1.2203)  / 1.45408) * 10 + 50) .
EXECUTE .
Compute KC27pw_T = (((KC27pw_R - 1.6950)  / 1.35642) * 10 + 50) .
EXECUTE .
Compute KC27pa_T  = (((KC27pa_R  - 1.1982)  / 1.08822) * 10 + 50) .
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EXECUTE .
Compute KC27pe_T  = (((KC27pe_R  - 1.7749)  / 1.50386) * 10 + 50) .
EXECUTE .
Compute KC27sc_T  = (((KC27sc_R  - 1.2774)  / 1.60553) * 10 + 50) .
EXECUTE .



VAR LAB KC27ph_R '27item Physical RASCH PP'.
EXECUTE .
VAR LAB KC27pw_R '27item Psychological Wellbeing RASCH PP'.
EXECUTE .
VAR LAB KC27pa_R '27item Parents RASCH PP'.
EXECUTE .
VAR LAB KC27pe_R '27item Peers RASCH PP'.
EXECUTE .
VAR LAB KC27sc_R '27item School RASCH PP'.
EXECUTE .



VAR LAB KC27ph_T '27item Physical international T-values based on RASCH PP'.
EXECUTE .
VAR LAB KC27pw_T '27item Psychological Wellbeing international T-values based on
RASCH PP'.
EXECUTE .
VAR LAB KC27pa_T '27item Parents international T-values based on RASCH PP'.
EXECUTE .
VAR LAB KC27pe_T '27item Peers international T-values based on RASCH PP'.
EXECUTE .
VAR LAB KC27sc_T '27item School international T-values based on RASCH PP'.
EXECUTE .
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