```
*****************************************************************.
**********************Physical activity LASA G************.
*****************************************************************.
COMPUTE filter_$=(glphya01 = 4).
VARIABLE LABEL filter_$ 'glphya01 = 4 (FILTER)'.
VALUE LABELS filter_$ 0 'Not Selected' 1 'Selected'.
FORMAT filter_$ (f1.0).
FILTER BY filter_$.
EXECUTE .
*****************************************************************.
**** WALKING TOTAL TIME PAST TWO WEEKS ****.
*****************************************************************.
compute loopg=-9.
if (glphya07<1) loopg=-9.
if (glphya06=1) loopg=0.
if (glphya07=1) loopg=0.
if (glphya07=2) and (glphya08 ge 1) and (glphya09 ge 1) loopg=(glphya08*glphya09)/14.
Variable label loopg "total walktime calculated in minutes per day".
execute.
fre loopg.
execute.
*Many people have missing the frequence or the duration of the activity - veel mensen hebben een missing op alleen frequentie of alleen duur activiteit.
*Therefore impute the missing values - daarom missende waarden in bepaalde gevallen imputeren.
*that is what you do with the syntax below, separately for each sex - dat gebeurt hieronder voor elk geslacht afzonderlijk.
*Imputation values are different for each wave. (In short, the value that you assign to each missing value is equal to the mean value for each sex separately.
*There is a file at Jan with the means for each wave). - imputatiewaarden verschillen per meetmoment!.
*The variable WALKING - de variabele lopen.
if (glphya06=2 and glphya07=2 and glphya08<1 and sex=2) glphya08=12.
if (glphya06=2 and glphya07=2 and glphya08<1 and sex=1) glphya08=13.
if (glphya06=2 and glphya07=2 and glphya09<1 and sex=2) glphya09=36.
if (glphya06=2 and glphya07=2 and glphya09<1 and sex=1) glphya09=36.
if (glphya07=2) and (glphya08 ge 1) and (glphya09 ge 1) loopg=(glphya08*glphya09)/14.
if (loopg>720) loopg=720.
execute.
fre loopg.
execute.
*****************************************************************.
**** CYCLING TOTAL TIME PAST TWO WEEKS ****.
*****************************************************************.
compute fietg=-9.
if (glphya11<1) fietg=-9.
if (glphya10=1) fietg=0.
if (glphya11=1) fietg=0.
if (glphya11=2) and (glphya12 ge 1) and (glphya13 ge 1) fietg= (glphya12*glphya13)/14.
Variable label fietg "total byclyling time in minutes per day".
execute.
fre fietg.
execute.

*The inputation of variable biking- de variabele fietsen imputeren.
if (glphya10=2 and glphya11=2 and glphya12<1 and sex=2) glphya12=9.
if (glphya10=2 and glphya11=2 and glphya12<1 and sex=1) glphya12=9.
if (glphya10=2 and glphya11=2 and glphya13<1 and sex=2) glphya13=26.
if (glphya10=2 and glphya11=2 and glphya13<1 and sex=1) glphya13=29.
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if (glphya11=2) and (glphya12 ge 1) and (glphya13 ge 1) fietg= (glphya12*glphya13)/14.
if (fietg>720) fietg=720.
execute.
fre fietg.
execute.
*****************************************************************.
**** SPORT 1 TOTAL TIME PAST TWO WEEKS ****.
*****************************************************************.
compute sport1g=-9.
if (glphya21<1) sport1g=-9.
if (glphya21=1) sport1g=0.
if (glphya21=2) and (glphya23 ge 1) and (glphya24 ge 1) sport1g=(glphya23*glphya24)/14.
Variable label sport1g "total sport time calculated in minutes per day".
execute.
fre sport1g.
execute.
* Imputation of variable sport1 - de variabele sport1 imputeren.
if (glphya21=2 and glphya23<1 and glphya22=1 and sex=2) glphya23=5.
if (glphya21=2 and glphya23<1 and glphya22=2 and sex=2) glphya23=3.
if (glphya21=2 and glphya23<1 and glphya22=3 and sex=2) glphya23=6.
if (glphya21=2 and glphya23<1 and glphya22=4 and sex=2) glphya23=11.
if (glphya21=2 and glphya23<1 and glphya22=5 and sex=2) glphya23=3.
if (glphya21=2 and glphya23<1 and glphya22=8 and sex=2) glphya23=4.
if (glphya21=2 and glphya23<1 and (glphya22=7 or glphya22=6 or glphya22=9 or glphya22=10 or
glphya22=11 or glphya22=12 or glphya22=13 or glphya22=14 or glphya22=15 or glphya22=16 or
glphya22=17) and sex=2) glphya23=4.
execute.
if (glphya21=2 and glphya24<1 and glphya22=1 and sex=2) glphya24=92.
if (glphya21=2 and glphya24<1 and glphya22=2 and sex=2) glphya24=114.
if (glphya21=2 and glphya24<1 and glphya22=3 and sex=2) glphya24=47.
if (glphya21=2 and glphya24<1 and glphya22=4 and sex=2) glphya24=16.
if (glphya21=2 and glphya24<1 and glphya22=5 and sex=2) glphya24=56.
if (glphya21=2 and glphya24<1 and glphya22=8 and sex=2) glphya24=74.
if (glphya21=2 and glphya24<1 and (glphya22=7 or glphya22=6 or glphya22=9 or glphya22=10 or
glphya22=11 or glphya22=12 or glphya22=13 or glphya22=14 or glphya22=15 or glphya22=16 or
glphya22=17) and sex=2) glphya24=91.
execute.
if (glphya21=2 and glphya23<1 and glphya22=1 and sex=1) glphya23=5.
if (glphya21=2 and glphya23<1 and glphya22=2 and sex=1) glphya23=5.
if (glphya21=2 and glphya23<1 and glphya22=3 and sex=1) glphya23=6.
if (glphya21=2 and glphya23<1 and glphya22=4 and sex=1) glphya23=9.
if (glphya21=2 and glphya23<1 and glphya22=5 and sex=1) glphya23=3.
if (glphya21=2 and glphya23<1 and glphya22=8 and sex=1) glphya23=4.
if (glphya21=2 and glphya23<1 and glphya22=12 and sex=1) glphya23=4.
if (glphya21=2 and glphya23<1 and (glphya22=6 or glphya22=9 or glphya22=10 or glphya22=11 or
glphya22=13 or glphya22=14 or glphya22=15 or glphya22=16 or glphya22=17) and sex=1) glphya23=5.
execute.

if (glphya21=2 and glphya24<1 and glphya22=1 and sex=1) glphya24=100.
if (glphya21=2 and glphya24<1 and glphya22=2 and sex=1) glphya24=127.
if (glphya21=2 and glphya24<1 and glphya22=3 and sex=1) glphya24=50.
if (glphya21=2 and glphya24<1 and glphya22=4 and sex=1) glphya24=22.
if (glphya21=2 and glphya24<1 and glphya22=5 and sex=1) glphya24=51.
if (glphya21=2 and glphya24<1 and glphya22=8 and sex=1) glphya24=101.
if (glphya21=2 and glphya24<1 and glphya22=12 and sex=1) glphya24=84.
if (glphya21=2 and glphya24<1 and (glphya22=6 or glphya22=7 or glphya22=9 or glphya22=10 or
glphya22=11 or glphya22=13 or glphya22=14 or glphya22=15 or glphya22=16 or glphya22=17) and
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sex=1) glphya24=115.
execute.
if (glphya21=2 and glphya23 ge 1 and glphya24 ge 1) sport1g=(glphya23*glphya24)/14.
if (sport1g>720) sport1g=720.
execute.
fre sport1g.
*****************************************************************.
**** SPORT 2 TOTAL TIME PAST TWO WEEKS ****.
*****************************************************************.
*calculate total time per day spend on sport2 in past two weeks.
compute sport2g=-9.
if (glphya25<1) sport2g=-9.
if (glphya25=1) sport2g=0.
if (glphya25=2) and (glphya27 ge 1) and (glphya28 ge 1) sport2g=(glphya27*glphya28)/14.
Variable label sport2g "total sport2time calculated in minutes per day".
execute.
fre sport2g.
execute.
* Imputation of the variable sport2 - de variabele sport2 imputeren.
if (glphya25=2 and glphya27<1 and glphya26=1 and sex=2) glphya27=3.
if (glphya25=2 and glphya27<1 and glphya26=2 and sex=2) glphya27=3.
if (glphya25=2 and glphya27<1 and glphya26=3 and sex=2) glphya27=5.
if (glphya25=2 and glphya27<1 and glphya26=4 and sex=2) glphya27=9.
if (glphya25=2 and glphya27<1 and glphya26=5 and sex=2) glphya27=2.
if (glphya25=2 and glphya27<1 and (glphya26=6 or glphya26=7 or glphya26=8 or glphya26=9 or glphya26=10 or
glphya26=11 or glphya26=12 or glphya26=13 or glphya26=14 or glphya26=15 or glphya26=16 or
glphya26=17) and sex=2) glphya27=3.
execute.

if (glphya25=2 and glphya27<1 and glphya26=1 and sex=1) glphya27=4.
if (glphya25=2 and glphya27<1 and glphya26=2 and sex=1) glphya27=3.
if (glphya25=2 and glphya27<1 and glphya26=3 and sex=1) glphya27=6.
if (glphya25=2 and glphya27<1 and glphya26=5 and sex=1) glphya27=3.
if (glphya25=2 and glphya27<1 and glphya26=12 and sex=1) glphya27=3.
if (glphya25=2 and glphya27<1 and (glphya26=4 or glphya26=6 or glphya26=7 or glphya26=8 or
glphya26=9 or glphya26=10 or glphya26=11 or glphya26=13 or glphya26=14 or glphya26=15 or
glphya26=16 or glphya26=17) and sex=1) glphya27=4.
execute.

if (glphya25=2 and glphya28<1 and glphya26=1 and sex=2) glphya28=77.
if (glphya25=2 and glphya28<1 and glphya26=2 and sex=2) glphya28=116.
if (glphya25=2 and glphya28<1 and glphya26=3 and sex=2) glphya28=49.
if (glphya25=2 and glphya28<1 and glphya26=4 and sex=2) glphya28=19.
if (glphya25=2 and glphya28<1 and glphya26=5 and sex=2) glphya28=47.
if (glphya25=2 and glphya28<1 and (glphya26=6 or glphya26=7 or glphya26=8 or glphya26=9 or glphya26=10 or
glphya26=11 or glphya26=12 or glphya26=13 or glphya26=14 or glphya26=15 or glphya26=16 or
glphya26=17) and sex=2) glphya28=96.
execute.

if (glphya25=2 and glphya28<1 and glphya26=1 and sex=1) glphya28=95.
if (glphya25=2 and glphya28<1 and glphya26=2 and sex=1) glphya28=118.
if (glphya25=2 and glphya28<1 and glphya26=3 and sex=1) glphya28=58.
if (glphya25=2 and glphya28<1 and glphya26=5 and sex=1) glphya28=61.
if (glphya25=2 and glphya28<1 and glphya26=12 and sex=1) glphya28=105.
if (glphya25=2 and glphya28<1 and (glphya26=4 or glphya26=6 or glphya26=7 or glphya26=8 or
glphya26=9 or glphya26=10 or glphya26=11 or glphya26=13 or glphya26=14 or glphya26=15 or
glphya26=16 or glphya26=17) and sex=1) glphya28=100.
```

```
execute.
if (glphya25=2) and (glphya27 ge 1) and (glphya28 ge 1) sport2g=(glphya27*glphya28)/14.
if (sport2g>720) sport2g=720.
if (sport1g=0 and sport2g=-9) sport2g=0.
execute.
fre sport2g.
*************************************************************************.
**** LIGHT HOUSHOLD ACTIVITIES PAST TWO WEEKS ****.
*************************************************************************.
*compute total time per day spend on light houshold activities in past two weeks.
compute lhuisg=-9.
if (glphya32<1) lhuisg=-9.
if (glphya31=1) lhuisg=0.
if (glphya32=1) lhuisg=0.
if (glphya32=2) and (glphya33 ge 1) and (glphya34 ge 1) lhuisg=(glphya33*glphya34)/14.
Variable label lhuisg "total licht huishoudentime calculated in minutes per day".
execute.
fre lhuisg.
execute.
*Imputation of the variable Light household activities/work - de variablen licht huishoudelijk werk imputeren.
if (glphya31=2 and glphya32=2 and glphya33<1 and sex=2) glphya33=13.
if (glphya31=2 and glphya32=2 and glphya33<1 and sex=1) glphya33=11.
if (glphya31=2 and glphya32=2 and glphya34<1 and sex=2) glphya34=113.
if (glphya31=2 and glphya32=2 and glphya34<1 and sex=1) glphya34=56.
if (glphya32=2 and glphya33 ge 1 and glphya34 ge 1) lhuisg=(glphya33*glphya34)/14.
if (lhuisg>720) lhuisg=720.
execute.
fre lhuisg.
execute.
*************************************************************************.
**** HEAVY HOUSHOLD ACTIVITIES PAST TWO WEEKS ****.
*************************************************************************.
*calculate total time per day spend on heavy household activities in past two weeks.
compute zhuisg=-9.
if (glphya36<1) zhuisg=-9.
if (glphya35=1) zhuisg=0.
if (glphya36=1) zhuisg=0.
if ((glphya36=2) and (glphya37 ge 1) and (glphya38 ge 1)) zhuisg=(glphya37*glphya38)/14.
Variable label zhuisg "total zwaar huishoudentijd calculated in minutes per day".
execute.
fre zhuisg.
execute.
*Imputation of the variable HEAVY HOUSEHOLD ACTIVITIES - de variabele zwaar huishoudelijk werk
imputeren.
if (glphya35=2 and glphya36=2 and glphya37<1 and sex=2) glphya37=4.
if (glphya35=2 and glphya36=2 and glphya37<1 and sex=1) glphya37=4.
if (glphya35=2 and glphya36=2 and glphya38<1 and sex=2) glphya38=88.
if (glphya35=2 and glphya36=2 and glphya38<1 and sex=1) glphya38=79.
if (glphya36=2 and glphya37 ge 1 and glphya38 ge 1) zhuisg=(glphya37*glphya38)/14.
if (zhuisg>720) zhuisg=720.
execute.
fre zhuisg.
execute.
*************************************************************************.
**** PHYSICAL ACTIVITY TOTAL SCORE **********************.
*************************************************************************.
missing value loopg fietg sport1g sport2g lhuisg zhuisg (-9).
```

```
count misactg= loopg fietg sport1g sport2g lhuisg zhuisg (-9).
fre misactg.
execute.
*was activity pattern normal in past two weeks, yes/no.
compute normalg=-9.
if (glphya39=2) normalg=1.
if (glphya39=1) normalg=0.
if (glphya39<1) normalg=-9.
Variable label normalg "was activity pattern normal in past two weeks".
value labels normalg (1)"ja"(0) "nee" (-9) "missing".
execute.
fre normalg.
execute.
compute totactg= SUM. (loopg, fietg, sport1g, sport2g, lhuisg, zhuisg).
Variable label totactg "totale activiteit op g".
compute nspoactg= SUM. (loopg, fietg, lhuisg, zhuisg).
Variable label nspoactg "geen sportactiviteit".
compute spoactg= SUM. (sport1g, sport2g).
Variable label spoactg "sportactiviteit".
fre spoactg nspoactg totactg.
execute.
*****************************************************************************.
**** TOTAL SCORE IN KCAL/DAY*********************************.
*****************************************************************************.
*assigning MET-scores.
missing value gmed153 (-1 -2 -3).
execute.

compute loopgk= 3.5*gmed153 *(loopg/60).
compute fietgk= 4.5*gmed153 *(fietg/60).
compute lhuisgk=2.5*gmed153 *(lhuisg/60).
compute zhuisgk=4.5*gmed153 *(zhuisg/60).
execute.
*sport1.
if (glphya22 = 1) sport1gk = 4.0* gmed153 *(sport1g/60) .
if (glphya22 = 2) sport1gk = 6.0* gmed153 *(sport1g/60) .
if (glphya22 = 3) sport1gk = 4.0* gmed153 *(sport1g/60) .
if (glphya22 = 4) sport1gk = 4.0* gmed153 *(sport1g/60) .
if (glphya22 = 5) sport1gk = 5.0* gmed153 *(sport1g/60) .
if (glphya22 = 6) sport1gk = 5.0* gmed153 *(sport1g/60) .
if (glphya22 = 7) sport1gk = 3.0* gmed153 *(sport1g/60) .
if (glphya22 = 8) sport1gk = 6.0* gmed153 *(sport1g/60) .
if (glphya22 = 9) sport1gk = 7.0* gmed153 *(sport1g/60) .
if (glphya22 = 10) sport1gk = 5.5* gmed153 *(sport1g/60) .
if (glphya22 = 11) sport1gk = 3.0* gmed153 *(sport1g/60) .
if (glphya22 = 12) sport1gk = 2.5* gmed153 *(sport1g/60) .
if (glphya22 = 13) sport1gk = 3.0* gmed153 *(sport1g/60) .
if (glphya22 = 14) sport1gk = 6.0* gmed153 *(sport1g/60) .
if (glphya22 = 15) sport1gk = 4.0* gmed153 *(sport1g/60) .
if (glphya22 = 16) sport1gk = 6.0* gmed153 *(sport1g/60) .
if (glphya22 = 17) sport1gk = 4.0* gmed153 *(sport1g/60) .
execute.
*sport2.
if (glphya26 = 1) sport2gk = 4.0* gmed153 *(sport2g/60) .
if (glphya26 = 2) sport2gk = 6.0* gmed153 *(sport2g/60) .
if (glphya26 = 3) sport2gk = 4.0* gmed153 *(sport2g/60) .
if (glphya26 = 4) sport2gk = 4.0* gmed153 *(sport2g/60) .
```

```
if (glphya26 = 5) sport2gk = 5.0* gmed153 *(sport2g/60) .
if (glphya26 = 6) sport2gk = 5.0* gmed153 *(sport2g/60) .
if (glphya26 = 7) sport2gk = 3.0* gmed153 *(sport2g/60) .
if (glphya26 = 8) sport2gk = 6.0* gmed153 *(sport2g/60) .
if (glphya26 = 9) sport2gk = 7.0* gmed153 *(sport2g/60) .
if (glphya26 = 10) sport2gk = 5.5* gmed153 *(sport2g/60) .
if (glphya26 = 11) sport2gk = 3.0* gmed153 *(sport2g/60) .
if (glphya26 = 12) sport2gk = 2.5* gmed153 *(sport2g/60) .
if (glphya26 = 13) sport2gk = 3.0* gmed153 *(sport2g/60) .
if (glphya26 = 14) sport2gk = 6.0* gmed153 *(sport2g/60) .
if (glphya26 = 15) sport2gk = 4.0* gmed153 *(sport2g/60) .
if (glphya26 = 16) sport2gk = 6.0* gmed153 *(sport2g/60) .
if (glphya26 = 17) sport2gk = 4.0* gmed153 *(sport2g/60) .
execute.

compute totactgk= SUM. (loopgk, fietgk, sport1gk, sport2gk, lhuisgk, zhuisgk).
Variable label totactgk "totale activiteit op g kcal/day".

compute nspoactgk= SUM. (loopgk, fietgk, lhuisgk, zhuisgk).
Variable label nspoactgk "geen sportactiviteit kcal/day".

compute spoactgk= SUM. (sport1gk, sport2gk).
Variable label spoactgk "sportactiviteit kcal/day".
fre spoactgk nspoactgk totactgk.
execute.


*******TOTAL SCORE IN METhours/week******  The time spent on physical activity was calculated in min per day { ( frequency in last two weeks* duration in min)/14} So, divide by 60 and multiply with 7 to get the unit MET hours / week.

compute loopg_meth= 3.5*(loopg/60)*7.
compute fietg_meth= 4.5*(fietg/60)*7.
compute lhuisg_meth=2.5*(lhuisg/60)*7.
compute zhuisg_meth=4.5*(zhuisg/60)*7.
execute.
*sport1.
if (glphya22 = 1) sport1g_meth = 4.0*(sport1g/60)*7 .
if (glphya22 = 2) sport1g_meth = 6.0*(sport1g/60)*7 .
if (glphya22 = 3) sport1g_meth = 4.0*(sport1g/60)*7 .
if (glphya22 = 4) sport1g_meth = 4.0*(sport1g/60)*7 .
if (glphya22 = 5) sport1g_meth = 5.0*(sport1g/60)*7 .
if (glphya22 = 6) sport1g_meth = 5.0*(sport1g/60)*7 .
if (glphya22 = 7) sport1g_meth = 3.0*(sport1g/60)*7 .
if (glphya22 = 8) sport1g_meth = 6.0*(sport1g/60)*7 .
if (glphya22 = 9) sport1g_meth = 7.0*(sport1g/60)*7 .
if (glphya22 = 10) sport1g_meth = 5.5*(sport1g/60)*7 .
if (glphya22 = 11) sport1g_meth = 3.0*(sport1g/60)*7 .
if (glphya22 = 12) sport1g_meth = 2.5*(sport1g/60)*7 .
if (glphya22 = 13) sport1g_meth = 3.0*(sport1g/60)*7 .
if (glphya22 = 14) sport1g_meth = 6.0*(sport1g/60)*7 .
if (glphya22 = 15) sport1g_meth = 4.0*(sport1g/60)*7 .
if (glphya22 = 16) sport1g_meth = 6.0*(sport1g/60)*7 .
if (glphya22 = 17) sport1g_meth = 4.0*(sport1g/60)*7 .
execute.
*sport2.
if (glphya26 = 1) sport2g_meth = 4.0*(sport2g/60)*7 .
```

```
if (glphya26 = 2) sport2g_meth = 6.0*(sport2g/60)*7 .
if (glphya26 = 3) sport2g_meth = 4.0*(sport2g/60)*7 .
if (glphya26 = 4) sport2g_meth = 4.0*(sport2g/60)*7 .
if (glphya26 = 5) sport2g_meth = 5.0*(sport2g/60)*7 .
if (glphya26 = 6) sport2g_meth = 5.0*(sport2g/60)*7 .
if (glphya26 = 7) sport2g_meth = 3.0*(sport2g/60)*7 .
if (glphya26 = 8) sport2g_meth = 6.0*(sport2g/60)*7 .
if (glphya26 = 9) sport2g_meth = 7.0*(sport2g/60)*7 .
if (glphya26 = 10) sport2g_meth = 5.5*(sport2g/60)*7 .
if (glphya26 = 11) sport2g_meth = 3.0*(sport2g/60)*7 .
if (glphya26 = 12) sport2g_meth = 2.5*(sport2g/60)*7 .
if (glphya26 = 13) sport2g_meth = 3.0*(sport2g/60)*7 .
if (glphya26 = 14) sport2g_meth = 6.0*(sport2g/60)*7 .
if (glphya26 = 15) sport2g_meth = 4.0*(sport2g/60)*7 .
if (glphya26 = 16) sport2g_meth = 6.0*(sport2g/60)*7 .
if (glphya26 = 17) sport2g_meth = 4.0*(sport2g/60)*7 .
execute.

compute totactg_meth= SUM. (loopg_meth, fietg_meth, sport1g_meth, sport2g_meth, lhuisg_meth, zhuisg_meth).
Variable label totactg_meth "total activity in g-wave in  METhours/week".

compute nspoactg_meth= SUM. (loopg_meth, fietg_meth, lhuisg_meth, zhuisg_meth).
Variable label nspoactg_meth "no sport activity g-wave METhours/week".

compute spoactg_meth= SUM. (sport1g_meth, sport2g_meth).
Variable label spoactg_meth "sport activity in g wave METhours/week".

fre spoactg_meth nspoactg_meth totactg_meth.
execute.
```