```
*****************************************************************.
**********************Physical activity LASA E************.
*****************************************************************.
COMPUTE filter_$=(elphya01 = 4).
VARIABLE LABEL filter_$ 'elphya01 = 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 loope=-9.
if (elphya07<1) loope=-9.
if (elphya06=1) loope=0.
if (elphya07=1) loope=0.
if (elphya07=2) and (elphya08 ge 1) and (elphya09 ge 1) loope=(elphya08*elphya09)/14.
Variable label loope "total walktime calculated in minutes per day".
execute.
fre loope.
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 (elphya06=2 and elphya07=2 and elphya08<1 and sex=2) elphya08=12.
if (elphya06=2 and elphya07=2 and elphya08<1 and sex=1) elphya08=16.
if (elphya06=2 and elphya07=2 and elphya09<1 and sex=2) elphya09=35.
if (elphya06=2 and elphya07=2 and elphya09<1 and sex=1) elphya09=36.
if (elphya07=2) and (elphya08 ge 1) and (elphya09 ge 1) loope=(elphya08*elphya09)/14.
if (loope>720) loope=720.
execute.
fre loope.
execute.
*****************************************************************.
**** CYCLING TOTAL TIME PAST TWO WEEKS ****.
*****************************************************************.
compute fiete=-9.
if (elphya11<1) fiete=-9.
if (elphya10=1) fiete=0.
if (elphya11=1) fiete=0.
if (elphya11=2) and (elphya12 ge 1) and (elphya13 ge 1) fiete= (elphya12*elphya13)/14.
Variable label fiete "total byclyling time in minutes per day".
execute.
fre fiete.
execute.

*The inputation of variable biking- de variabele fietsen imputeren.
if (elphya10=2 and elphya11=2 and elphya12<1 and sex=2) elphya12=9.
if (elphya10=2 and elphya11=2 and elphya12<1 and sex=1) elphya12=10.
if (elphya10=2 and elphya11=2 and elphya13<1 and sex=2) elphya13=28.
if (elphya10=2 and elphya11=2 and elphya13<1 and sex=1) elphya13=32.
```

```
if (elphya11=2) and (elphya12 ge 1) and (elphya13 ge 1) fiete= (elphya12*elphya13)/14.
if (fiete>720) fiete=720.
execute.
fre fiete.
execute.
*****************************************************************.
**** SPORT 1 TOTAL TIME PAST TWO WEEKS ****.
*****************************************************************.
compute sport1e=-9.
if (elphya21<1) sport1e=-9.
if (elphya21=1) sport1e=0.
if (elphya21=2) and (elphya23 ge 1) and (elphya24 ge 1) sport1e=(elphya23*elphya24)/14.
Variable label sport1e "total sport time calculated in minutes per day".
execute.
fre sport1e.
execute.
* Imputation of variable sport1 - de variabele sport1 imputeren.
if (elphya21=2 and elphya23<1 and elphya22=1 and sex=2) elphya23=5.
if (elphya21=2 and elphya23<1 and elphya22=2 and sex=2) elphya23=3.
if (elphya21=2 and elphya23<1 and elphya22=3 and sex=2) elphya23=6.
if (elphya21=2 and elphya23<1 and elphya22=4 and sex=2) elphya23=10.
if (elphya21=2 and elphya23<1 and elphya22=5 and sex=2) elphya23=2.
if (elphya21=2 and elphya23<1 and (elphya22=6 or elphya22=7 or elphya22=8 or elphya22=9 or elphya22=10 or
elphya22=11 or elphya22=12 or elphya22=13 or elphya22=14 or elphya22=15 or elphya22=16 or
elphya22=17) and sex=2) elphya23=4.
execute.
if (elphya21=2 and elphya24<1 and elphya22=1 and sex=2) elphya24=89.
if (elphya21=2 and elphya24<1 and elphya22=2 and sex=2) elphya24=111.
if (elphya21=2 and elphya24<1 and elphya22=3 and sex=2) elphya24=45.
if (elphya21=2 and elphya24<1 and elphya22=4 and sex=2) elphya24=13.
if (elphya21=2 and elphya24<1 and elphya22=5 and sex=2) elphya24=48.
if (elphya21=2 and elphya24<1 and (elphya22=6 or elphya22=7 or elphya22=8 or elphya22=9 or elphya22=10 or
elphya22=11 or elphya22=12 or elphya22=13 or elphya22=14 or elphya22=15 or elphya22=16 or
elphya22=17) and sex=2) elphya24=92.
execute.
if (elphya21=2 and elphya23<1 and elphya22=1 and sex=1) elphya23=6.
if (elphya21=2 and elphya23<1 and elphya22=2 and sex=1) elphya23=4.
if (elphya21=2 and elphya23<1 and elphya22=3 and sex=1) elphya23=7.
if (elphya21=2 and elphya23<1 and elphya22=4 and sex=1) elphya23=10.
if (elphya21=2 and elphya23<1 and elphya22=5 and sex=1) elphya23=3.
if (elphya21=2 and elphya23<1 and elphya22=12 and sex=1) elphya23=5.
if (elphya21=2 and elphya23<1 and (elphya22=6 or elphya22=7 or elphya22=8 or elphya22=9 or elphya22=10 or
elphya22=11 or
elphya22=13 or elphya22=14 or elphya22=15 or elphya22=16 or elphya22=17) and sex=1) elphya23=4.
execute.

if (elphya21=2 and elphya24<1 and elphya22=1 and sex=1) elphya24=86.
if (elphya21=2 and elphya24<1 and elphya22=2 and sex=1) elphya24=129.
if (elphya21=2 and elphya24<1 and elphya22=3 and sex=1) elphya24=43.
if (elphya21=2 and elphya24<1 and elphya22=4 and sex=1) elphya24=21.
if (elphya21=2 and elphya24<1 and elphya22=5 and sex=1) elphya24=48.
if (elphya21=2 and elphya24<1 and elphya22=12 and sex=1) elphya24=84.
if (elphya21=2 and elphya24<1 and (elphya22=6 or elphya22=7 or elphya22=8 or elphya22=9 or elphya22=10 or
elphya22=11 or elphya22=13 or elphya22=14 or elphya22=15 or elphya22=16 or elphya22=17) and
sex=1) elphya24=139.
execute.
if (elphya21=2 and elphya23 ge 1 and elphya24 ge 1) sport1e=(elphya23*elphya24)/14.
```

```
if (sport1e>720) sport1e=720.
execute.
fre sport1e.
*****************************************************************.
**** SPORT 2 TOTAL TIME PAST TWO WEEKS ****.
*****************************************************************.
*calculate total time per day spend on sport2 in past two weeks.
compute sport2e=-9.
if (elphya25<1) sport2e=-9.
if (elphya25=1) sport2e=0.
if (elphya25=2) and (elphya27 ge 1) and (elphya28 ge 1) sport2e=(elphya27*elphya28)/14.
Variable label sport2e "total sport2time calculated in minutes per day".
execute.
fre sport2e.
execute.
* Imputation of the variable sport2 - de variabele sport2 imputeren.
if (elphya25=2 and elphya27<1 and elphya26=1 and sex=2) elphya27=5.
if (elphya25=2 and elphya27<1 and elphya26=2 and sex=2) elphya27=3.
if (elphya25=2 and elphya27<1 and elphya26=3 and sex=2) elphya27=7.
if (elphya25=2 and elphya27<1 and elphya26=4 and sex=2) elphya27=6.
if (elphya25=2 and elphya27<1 and elphya26=5 and sex=2) elphya27=2.
if (elphya25=2 and elphya27<1 and (elphya26=6 or elphya26=7 or elphya26=8 or elphya26=9 or elphya26=10 or
elphya26=11 or elphya26=12 or elphya26=13 or elphya26=14 or elphya26=15 or elphya26=16 or
elphya26=17) and sex=2) elphya27=4.
execute.

if (elphya25=2 and elphya27<1 and elphya26=1 and sex=1) elphya27=4.
if (elphya25=2 and elphya27<1 and elphya26=2 and sex=1) elphya27=4.
if (elphya25=2 and elphya27<1 and elphya26=3 and sex=1) elphya27=4.
if (elphya25=2 and elphya27<1 and elphya26=12 and sex=1) elphya27=4.
if (elphya25=2 and elphya27<1 and (elphya26=4 or elphya26=5 or elphya26=6 or elphya26=7 or elphya26=8 or
elphya26=9 or elphya26=10 or elphya26=11 or elphya26=13 or elphya26=14 or elphya26=15 or
elphya26=16 or elphya26=17) and sex=1) elphya27=4.
execute.


if (elphya25=2 and elphya28<1 and elphya26=1 and sex=2) elphya28=66.
if (elphya25=2 and elphya28<1 and elphya26=2 and sex=2) elphya28=100.
if (elphya25=2 and elphya28<1 and elphya26=3 and sex=2) elphya28=39.
if (elphya25=2 and elphya28<1 and elphya26=4 and sex=2) elphya28=16.
if (elphya25=2 and elphya28<1 and elphya26=5 and sex=2) elphya28=53.
if (elphya25=2 and elphya28<1 and (elphya26=6 or elphya26=7 or elphya26=8 or elphya26=9 or elphya26=10 or
elphya26=11 or elphya26=12 or elphya26=13 or elphya26=14 or elphya26=15 or elphya26=16 or
elphya26=17) and sex=2) elphya28=78.
execute.

if (elphya25=2 and elphya28<1 and elphya26=1 and sex=1) elphya28=112.
if (elphya25=2 and elphya28<1 and elphya26=2 and sex=1) elphya28=107.
if (elphya25=2 and elphya28<1 and elphya26=3 and sex=1) elphya28=65.
if (elphya25=2 and elphya28<1 and elphya26=12 and sex=1) elphya28=87.
if (elphya25=2 and elphya28<1 and (elphya26=4 or elphya26=5 or elphya26=6 or elphya26=7 or elphya26=8 or
elphya26=9 or elphya26=10 or elphya26=11 or elphya26=13 or elphya26=14 or elphya26=15 or
elphya26=16 or elphya26=17) and sex=1) elphya28=91.
execute.
if (elphya25=2) and (elphya27 ge 1) and (elphya28 ge 1) sport2e=(elphya27*elphya28)/14.
if (sport2e>720) sport2e=720.
if (sport1e=0 and sport2e=-9) sport2e=0.
```

```
execute.
fre sport2e.
*****************************************************************************.
**** LIGHT HOUSHOLD ACTIVITIES PAST TWO WEEKS ****.
*****************************************************************************.
*compute total time per day spend on light houshold activities in past two weeks.
compute lhuise=-9.
if (elphya32<1) lhuise=-9.
if (elphya31=1) lhuise=0.
if (elphya32=1) lhuise=0.
if (elphya32=2) and (elphya33 ge 1) and (elphya34 ge 1) lhuise=(elphya33*elphya34)/14.
Variable label lhuise "total licht huishoudentime calculated in minutes per day".
execute.
fre lhuise.
execute.
*Imputation of the variable Light household activities/work - de variablen licht huishoudelijk werk imputeren.
if (elphya31=2 and elphya32=2 and elphya33<1 and sex=2) elphya33=13.
if (elphya31=2 and elphya32=2 and elphya33<1 and sex=1) elphya33=12.
if (elphya31=2 and elphya32=2 and elphya34<1 and sex=2) elphya34=125.
if (elphya31=2 and elphya32=2 and elphya34<1 and sex=1) elphya34=62.
if (elphya32=2 and elphya33 ge 1 and elphya34 ge 1) lhuise=(elphya33*elphya34)/14.
if (lhuise>720) lhuise=720.
execute.
fre lhuise.
execute.
*****************************************************************************.
**** HEAVY HOUSHOLD ACTIVITIES PAST TWO WEEKS ****.
*****************************************************************************.
*calculate total time per day spend on heavy household activities in past two weeks.
compute zhuise=-9.
if (elphya36<1) zhuise=-9.
if (elphya35=1) zhuise=0.
if (elphya36=1) zhuise=0.
if ((elphya36=2) and (elphya37 ge 1) and (elphya38 ge 1)) zhuise=(elphya37*elphya38)/14.
Variable label zhuise "total zwaar huishoudentijd calculated in minutes per day".
execute.
fre zhuise.
execute.
*Imputation of the variable HEAVY HOUSEHOLD ACTIVITIES - de variabele zwaar huishoudelijk werk
imputeren.
if (elphya35=2 and elphya36=2 and elphya37<1 and sex=2) elphya37=4.
if (elphya35=2 and elphya36=2 and elphya37<1 and sex=1) elphya37=4.
if (elphya35=2 and elphya36=2 and elphya38<1 and sex=2) elphya38=89.
if (elphya35=2 and elphya36=2 and elphya38<1 and sex=1) elphya38=87.
if (elphya36=2 and elphya37 ge 1 and elphya38 ge 1) zhuise=(elphya37*elphya38)/14.
if (zhuise>720) zhuise=720.
execute.
fre zhuise.
execute.
*****************************************************************************.
**** PHYSICAL ACTIVITY TOTAL SCORE **********************.
*****************************************************************************.
missing value loope fiete sport1e sport2e lhuise zhuise (-9).
count misacte= loope fiete sport1e sport2e lhuise zhuise (-9).
fre misacte.
execute.
*was activity pattern normal in past two weeks, yes/no.
```

```
compute normale=-9.
if (elphya39=2) normale=1.
if (elphya39=1) normale=0.
if (elphya39<1) normale=-9.
Variable label normale "was activity pattern normal in past two weeks".
value labels normale (1)"ja"(0) "nee" (-9) "missing".
execute.
fre normale.
execute.
compute totacte= SUM. (loope, fiete, sport1e, sport2e, lhuise, zhuise).
Variable label totacte "totale activiteit op e".
compute nspoacte= SUM. (loope, fiete, lhuise, zhuise).
Variable label nspoacte "geen sportactiviteit".
compute spoacte= SUM. (sport1e, sport2e).
Variable label spoacte "sportactiviteit".
fre spoacte nspoacte totacte.
execute.
*****************************************************************************.
**** TOTAL SCORE IN KCAL/DAY*********************************.
*****************************************************************************.
*assigning MET-scores.
missing value emed153 (-1 -2 -3).
execute.

compute loopek= 3.5* emed153 *(loope/60).
compute fietek= 4.5* emed153 *(fiete/60).
compute lhuisek=2.5* emed153 *(lhuise/60).
compute zhuisek=4.5* emed153 *(zhuise/60).
execute.
*sport1.
if (elphya22 = 1) sport1ek = 4.0* emed153 *(sport1e/60) .
if (elphya22 = 2) sport1ek = 6.0* emed153 *(sport1e/60) .
if (elphya22 = 3) sport1ek = 4.0* emed153 *(sport1e/60) .
if (elphya22 = 4) sport1ek = 4.0* emed153 *(sport1e/60) .
if (elphya22 = 5) sport1ek = 5.0* emed153 *(sport1e/60) .
if (elphya22 = 6) sport1ek = 5.0* emed153 *(sport1e/60) .
if (elphya22 = 7) sport1ek = 3.0* emed153 *(sport1e/60) .
if (elphya22 = 8) sport1ek = 6.0* emed153 *(sport1e/60) .
if (elphya22 = 9) sport1ek = 7.0* emed153 *(sport1e/60) .
if (elphya22 = 10) sport1ek = 5.5*emed153 *(sport1e/60) .
if (elphya22 = 11) sport1ek = 3.0* emed153 *(sport1e/60) .
if (elphya22 = 12) sport1ek = 2.5* emed153 *(sport1e/60) .
if (elphya22 = 13) sport1ek = 3.0* emed153 *(sport1e/60) .
if (elphya22 = 14) sport1ek = 6.0* emed153 *(sport1e/60) .
if (elphya22 = 15) sport1ek = 4.0* emed153 *(sport1e/60) .
if (elphya22 = 16) sport1ek = 6.0* emed153 *(sport1e/60) .
if (elphya22 = 17) sport1ek = 4.0* emed153 *(sport1e/60) .
execute.
*sport2.
if (elphya26 = 1) sport2ek = 4.0* emed153 *(sport2e/60) .
if (elphya26 = 2) sport2ek = 6.0* emed153 *(sport2e/60) .
if (elphya26 = 3) sport2ek = 4.0* emed153 *(sport2e/60) .
if (elphya26 = 4) sport2ek = 4.0* emed153 *(sport2e/60) .
if (elphya26 = 5) sport2ek = 5.0* emed153 *(sport2e/60) .
if (elphya26 = 6) sport2ek = 5.0* emed153 *(sport2e/60) .
if (elphya26 = 7) sport2ek = 3.0* emed153 *(sport2e/60) .
if (elphya26 = 8) sport2ek = 6.0* emed153 *(sport2e/60) .
```

```
if (elphya26 = 9) sport2ek = 7.0* emed153 *(sport2e/60) .
if (elphya26 = 10) sport2ek = 5.5*emed153 *(sport2e/60) .
if (elphya26 = 11) sport2ek = 3.0* emed153 *(sport2e/60) .
if (elphya26 = 12) sport2ek = 2.5* emed153 *(sport2e/60) .
if (elphya26 = 13) sport2ek = 3.0* emed153 *(sport2e/60) .
if (elphya26 = 14) sport2ek = 6.0* emed153 *(sport2e/60) .
if (elphya26 = 15) sport2ek = 4.0* emed153 *(sport2e/60) .
if (elphya26 = 16) sport2ek = 6.0* emed153 *(sport2e/60) .
if (elphya26 = 17) sport2ek = 4.0* emed153 *(sport2e/60) .
execute.

compute totactek= SUM. (loopek, fietek, sport1ek, sport2ek, lhuisek, zhuisek).
Variable label totactek "totale activiteit op e kcal/day".

compute nspoactek= SUM. (loopek, fietek, lhuisek, zhuisek).
Variable label nspoactek "geen sportactiviteit kcal/day".

compute spoactek= SUM. (sport1ek, sport2ek).
Variable label spoactek "sportactiviteit kcal/day".
fre spoactek nspoactek totactek.
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 loope_meth= 3.5*(loope/60)*7.
compute fiete_meth= 4.5*(fiete/60)*7.
compute lhuise_meth=2.5*(lhuise/60)*7.
compute zhuise_meth=4.5*(zhuise/60)*7.
execute.
*sport1.
if (elphya22 = 1) sport1e_meth = 4.0*(sport1e/60)*7 .
if (elphya22 = 2) sport1e_meth = 6.0*(sport1e/60)*7 .
if (elphya22 = 3) sport1e_meth = 4.0*(sport1e/60)*7 .
if (elphya22 = 4) sport1e_meth = 4.0*(sport1e/60)*7 .
if (elphya22 = 5) sport1e_meth = 5.0*(sport1e/60)*7 .
if (elphya22 = 6) sport1e_meth = 5.0*(sport1e/60)*7 .
if (elphya22 = 7) sport1e_meth = 3.0*(sport1e/60)*7 .
if (elphya22 = 8) sport1e_meth = 6.0*(sport1e/60)*7 .
if (elphya22 = 9) sport1e_meth = 7.0*(sport1e/60)*7 .
if (elphya22 = 10) sport1e_meth = 5.5*(sport1e/60)*7 .
if (elphya22 = 11) sport1e_meth = 3.0*(sport1e/60)*7 .
if (elphya22 = 12) sport1e_meth = 2.5*(sport1e/60)*7 .
if (elphya22 = 13) sport1e_meth = 3.0*(sport1e/60)*7 .
if (elphya22 = 14) sport1e_meth = 6.0*(sport1e/60)*7 .
if (elphya22 = 15) sport1e_meth = 4.0*(sport1e/60)*7 .
if (elphya22 = 16) sport1e_meth = 6.0*(sport1e/60)*7 .
if (elphya22 = 17) sport1e_meth = 4.0*(sport1e/60)*7 .
execute.
*sport2.
if (elphya26 = 1) sport2e_meth = 4.0*(sport2e/60)*7 .
if (elphya26 = 2) sport2e_meth = 6.0*(sport2e/60)*7 .
if (elphya26 = 3) sport2e_meth = 4.0*(sport2e/60)*7 .
if (elphya26 = 4) sport2e_meth = 4.0*(sport2e/60)*7 .
if (elphya26 = 5) sport2e_meth = 5.0*(sport2e/60)*7 .
```

```
if (elphya26 = 6) sport2e_meth = 5.0*(sport2e/60)*7 .
if (elphya26 = 7) sport2e_meth = 3.0*(sport2e/60)*7 .
if (elphya26 = 8) sport2e_meth = 6.0*(sport2e/60)*7 .
if (elphya26 = 9) sport2e_meth = 7.0*(sport2e/60)*7 .
if (elphya26 = 10) sport2e_meth = 5.5*(sport2e/60)*7 .
if (elphya26 = 11) sport2e_meth = 3.0*(sport2e/60)*7 .
if (elphya26 = 12) sport2e_meth = 2.5*(sport2e/60)*7 .
if (elphya26 = 13) sport2e_meth = 3.0*(sport2e/60)*7 .
if (elphya26 = 14) sport2e_meth = 6.0*(sport2e/60)*7 .
if (elphya26 = 15) sport2e_meth = 4.0*(sport2e/60)*7 .
if (elphya26 = 16) sport2e_meth = 6.0*(sport2e/60)*7 .
if (elphya26 = 17) sport2e_meth = 4.0*(sport2e/60)*7 .
execute.

compute totacte_meth= SUM. (loope_meth, fiete_meth, sport1e_meth, sport2e_meth, lhuise_meth, zhuise_meth).
Variable label totacte_meth "total activity in e-wave in  METhours/week".

compute nspoacte_meth= SUM. (loope_meth, fiete_meth, lhuise_meth, zhuise_meth).
Variable label nspoacte_meth "no sport activity e-wave METhours/week".

compute spoacte_meth= SUM. (sport1e_meth, sport2e_meth).
Variable label spoacte_meth "sport activity in e-wave METhours/week".

fre spoacte_meth nspoacte_meth totacte_meth.
execute.
```