```
*****************************************************************.
**********Physical activity LASA F**********.
*****************************************************************.
COMPUTE filter_$=(flphya01 = 4).
VARIABLE LABEL filter_$ 'flphya01 = 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 loopf=-9.
if (flphya07<1) loopf=-9.
if (flphya06=1) loopf=0.
if (flphya07=1) loopf=0.
if (flphya07=2) and (flphya08 ge 1) and (flphya09 ge 1) loopf=(flphya08*flphya09)/14.
Variable label loopf "total walktime calculated in minutes per day".
execute.
fre loopf.
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 (flphya06=2 and flphya07=2 and flphya08<1 and sex=2) flphya08=12.
if (flphya06=2 and flphya07=2 and flphya08<1 and sex=1) flphya08=14.
if (flphya06=2 and flphya07=2 and flphya09<1 and sex=2) flphya09=37.
if (flphya06=2 and flphya07=2 and flphya09<1 and sex=1) flphya09=36.
if (flphya07=2) and (flphya08 ge 1) and (flphya09 ge 1) loopf=(flphya08*flphya09)/14.
if (loopf>720) loopf=720.
execute.
fre loopf.
execute.
*****************************************************************.
**** CYCLING TOTAL TIME PAST TWO WEEKS ****.
*****************************************************************.
compute fietf=-9.
if (flphya11<1) fietf=-9.
if (flphya10=1) fietf=0.
if (flphya11=1) fietf=0.
if (flphya11=2) and (flphya12 ge 1) and (flphya13 ge 1) fietf= (flphya12*flphya13)/14.
Variable label fietf "total byclyling time in minutes per day".
execute.
fre fietf.
execute.

*The inputation of variable biking- de variabele fietsen imputeren.
if (flphya10=2 and flphya11=2 and flphya12<1 and sex=2) flphya12=9.
if (flphya10=2 and flphya11=2 and flphya12<1 and sex=1) flphya12=10.
if (flphya10=2 and flphya11=2 and flphya13<1 and sex=2) flphya13=28.
if (flphya10=2 and flphya11=2 and flphya13<1 and sex=1) flphya13=29.
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if (flphya11=2) and (flphya12 ge 1) and (flphya13 ge 1) fietf= (flphya12*flphya13)/14.
if (fietf>720) fietf=720.
execute.
fre fietf.
execute.
*****************************************************************.
**** SPORT 1 TOTAL TIME PAST TWO WEEKS ****.
*****************************************************************.
compute sport1f=-9.
if (flphya21<1) sport1f=-9.
if (flphya21=1) sport1f=0.
if (flphya21=2) and (flphya23 ge 1) and (flphya24 ge 1) sport1f=(flphya23*flphya24)/14.
Variable label sport1f "total sport time calculated in minutes per day".
execute.
fre sport1f.
execute.
* Imputation of variable sport1 - de variabele sport1 imputeren.
if (flphya21=2 and flphya23<1 and flphya22=1 and sex=2) flphya23=4.
if (flphya21=2 and flphya23<1 and flphya22=2 and sex=2) flphya23=3.
if (flphya21=2 and flphya23<1 and flphya22=3 and sex=2) flphya23=5.
if (flphya21=2 and flphya23<1 and flphya22=4 and sex=2) flphya23=11.
if (flphya21=2 and flphya23<1 and flphya22=5 and sex=2) flphya23=2.
if (flphya21=2 and flphya23<1 and flphya22=8 and sex=2) flphya23=3.
if (flphya21=2 and flphya23<1 and (flphya22=6 or flphya22=7 or flphya22=9 or flphya22=10 or
flphya22=11 or flphya22=12 or flphya22=13 or flphya22=14 or flphya22=15 or flphya22=16 or
flphya22=17) and sex=2) flphya23=4.
execute.
if (flphya21=2 and flphya24<1 and flphya22=1 and sex=2) flphya24=98.
if (flphya21=2 and flphya24<1 and flphya22=2 and sex=2) flphya24=131.
if (flphya21=2 and flphya24<1 and flphya22=3 and sex=2) flphya24=51.
if (flphya21=2 and flphya24<1 and flphya22=4 and sex=2) flphya24=17.
if (flphya21=2 and flphya24<1 and flphya22=5 and sex=2) flphya24=54.
if (flphya21=2 and flphya24<1 and flphya22=8 and sex=2) flphya24=64.
if (flphya21=2 and flphya24<1 and (flphya22=6 or flphya22=7 or flphya22=9 or flphya22=10 or
flphya22=11 or flphya22=12 or flphya22=13 or flphya22=14 or flphya22=15 or flphya22=16 or
flphya22=17) and sex=2) flphya24=103.
execute.
if (flphya21=2 and flphya23<1 and flphya22=1 and sex=1) flphya23=5.
if (flphya21=2 and flphya23<1 and flphya22=2 and sex=1) flphya23=4.
if (flphya21=2 and flphya23<1 and flphya22=3 and sex=1) flphya23=5.
if (flphya21=2 and flphya23<1 and flphya22=4 and sex=1) flphya23=7.
if (flphya21=2 and flphya23<1 and flphya22=5 and sex=1) flphya23=2.
if (flphya21=2 and flphya23<1 and flphya22=8 and sex=1) flphya23=3.
if (flphya21=2 and flphya23<1 and flphya22=12 and sex=1) flphya23=4.
if (flphya21=2 and flphya23<1 and (flphya22=6 or flphya22=7 or flphya22=9 or flphya22=10 or flphya22=11 or
flphya22=13 or flphya22=14 or flphya22=15 or flphya22=16 or flphya22=17) and sex=1) flphya23=4.
execute.

if (flphya21=2 and flphya24<1 and flphya22=1 and sex=1) flphya24=114.
if (flphya21=2 and flphya24<1 and flphya22=2 and sex=1) flphya24=136.
if (flphya21=2 and flphya24<1 and flphya22=3 and sex=1) flphya24=53.
if (flphya21=2 and flphya24<1 and flphya22=4 and sex=1) flphya24=31.
if (flphya21=2 and flphya24<1 and flphya22=5 and sex=1) flphya24=50.
if (flphya21=2 and flphya24<1 and flphya22=8 and sex=1) flphya24=94.
if (flphya21=2 and flphya24<1 and flphya22=12 and sex=1) flphya24=78.
if (flphya21=2 and flphya24<1 and (flphya22=6 or flphya22=7 or flphya22=9 or flphya22=10 or
flphya22=11 or flphya22=13 or flphya22=14 or flphya22=15 or flphya22=16 or flphya22=17) and
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sex=1) flphya24=135.
execute.
if (flphya21=2 and flphya23 ge 1 and flphya24 ge 1) sport1f=(flphya23*flphya24)/14.
if (sport1f>720) sport1f=720.
execute.
fre sport1f.
*****************************************************************.
**** SPORT 2 TOTAL TIME PAST TWO WEEKS ****.
*****************************************************************.
*calculate total time per day spend on sport2 in past two weeks.
compute sport2f=-9.
if (flphya25<1) sport2f=-9.
if (flphya25=1) sport2f=0.
if (flphya25=2) and (flphya27 ge 1) and (flphya28 ge 1) sport2f=(flphya27*flphya28)/14.
Variable label sport2f "total sport2time calculated in minutes per day".
execute.
fre sport2f.
execute.
* Imputation of the variable sport2 - de variabele sport2 imputeren.
if (flphya25=2 and flphya27<1 and flphya26=1 and sex=2) flphya27=3.
if (flphya25=2 and flphya27<1 and flphya26=2 and sex=2) flphya27=3.
if (flphya25=2 and flphya27<1 and flphya26=3 and sex=2) flphya27=5.
if (flphya25=2 and flphya27<1 and flphya26=4 and sex=2) flphya27=8.
if (flphya25=2 and flphya27<1 and flphya26=5 and sex=2) flphya27=2.
if (flphya25=2 and flphya27<1 and flphya26=6 and sex=2) flphya27=2.
if (flphya25=2 and flphya27<1 and (flphya26=7 or flphya26=8 or flphya26=9 or flphya26=10 or
flphya26=11 or flphya26=12 or flphya26=13 or flphya26=14 or flphya26=15 or flphya26=16 or
flphya26=17) and sex=2) flphya27=3.
execute.

if (flphya25=2 and flphya27<1 and flphya26=1 and sex=1) flphya27=7.
if (flphya25=2 and flphya27<1 and flphya26=2 and sex=1) flphya27=4.
if (flphya25=2 and flphya27<1 and flphya26=3 and sex=1) flphya27=6.
if (flphya25=2 and flphya27<1 and flphya26=4 and sex=1) flphya27=5.
if (flphya25=2 and flphya27<1 and flphya26=5 and sex=1) flphya27=3.
if (flphya25=2 and flphya27<1 and flphya26=12 and sex=1) flphya27=4.
if (flphya25=2 and flphya27<1 and (flphya26=6 or flphya26=7 or flphya26=8 or
flphya26=9 or flphya26=10 or flphya26=11 or flphya26=13 or flphya26=14 or flphya26=15 or
flphya26=16 or flphya26=17) and sex=1) flphya27=3.
execute.


if (flphya25=2 and flphya28<1 and flphya26=1 and sex=2) flphya28=86.
if (flphya25=2 and flphya28<1 and flphya26=2 and sex=2) flphya28=133.
if (flphya25=2 and flphya28<1 and flphya26=3 and sex=2) flphya28=49.
if (flphya25=2 and flphya28<1 and flphya26=4 and sex=2) flphya28=26.
if (flphya25=2 and flphya28<1 and flphya26=5 and sex=2) flphya28=55.
if (flphya25=2 and flphya28<1 and flphya26=6 and sex=2) flphya28=80.
if (flphya25=2 and flphya28<1 and (flphya26=7 or flphya26=8 or flphya26=9 or flphya26=10 or
flphya26=11 or flphya26=12 or flphya26=13 or flphya26=14 or flphya26=15 or flphya26=16 or
flphya26=17) and sex=2) flphya28=102.
execute.

if (flphya25=2 and flphya28<1 and flphya26=1 and sex=1) flphya28=96.
if (flphya25=2 and flphya28<1 and flphya26=2 and sex=1) flphya28=139.
if (flphya25=2 and flphya28<1 and flphya26=3 and sex=1) flphya28=52.
if (flphya25=2 and flphya28<1 and flphya26=4 and sex=1) flphya28=33.
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```
if (flphya25=2 and flphya28<1 and flphya26=5 and sex=1) flphya28=46.
if (flphya25=2 and flphya28<1 and flphya26=12 and sex=1) flphya28=114.
if (flphya25=2 and flphya28<1 and (flphya26=6 or flphya26=7 or flphya26=8 or
flphya26=9 or flphya26=10 or flphya26=11 or flphya26=13 or flphya26=14 or flphya26=15 or
flphya26=16 or flphya26=17) and sex=1) flphya28=111.
execute.
if (flphya25=2) and (flphya27 ge 1) and (flphya28 ge 1) sport2f=(flphya27*flphya28)/14.
if (sport2f>720) sport2f=720.
if (sport1f=0 and sport2f=-9) sport2f=0.
execute.
fre sport2f.
*****************************************************************************.
**** LIGHT HOUSHOLD ACTIVITIES PAST TWO WEEKS ****.
*****************************************************************************.
*compute total time per day spend on light houshold activities in past two weeks.
compute lhuisf=-9.
if (flphya32<1) lhuisf=-9.
if (flphya31=1) lhuisf=0.
if (flphya32=1) lhuisf=0.
if (flphya32=2) and (flphya33 ge 1) and (flphya34 ge 1) lhuisf=(flphya33*flphya34)/14.
Variable label lhuisf "total licht huishoudentime calculated in minutes per day".
execute.
fre lhuisf.
execute.
*Imputation of the variable Light household activities/work - de variablen licht huishoudelijk werk imputeren.
if (flphya31=2 and flphya32=2 and flphya33<1 and sex=2) flphya33=13.
if (flphya31=2 and flphya32=2 and flphya33<1 and sex=1) flphya33=11.
if (flphya31=2 and flphya32=2 and flphya34<1 and sex=2) flphya34=118.
if (flphya31=2 and flphya32=2 and flphya34<1 and sex=1) flphya34=56.
if (flphya32=2 and flphya33 ge 1 and flphya34 ge 1) lhuisf=(flphya33*flphya34)/14.
if (lhuisf>720) lhuisf=720.
execute.
fre lhuisf.
execute.
*****************************************************************************.
**** HEAVY HOUSHOLD ACTIVITIES PAST TWO WEEKS ****.
*****************************************************************************.
*calculate total time per day spend on heavy household activities in past two weeks.
compute zhuisf=-9.
if (flphya36<1) zhuisf=-9.
if (flphya35=1) zhuisf=0.
if (flphya36=1) zhuisf=0.
if ((flphya36=2) and (flphya37 ge 1) and (flphya38 ge 1)) zhuisf=(flphya37*flphya38)/14.
Variable label zhuisf "total zwaar huishoudentijd calculated in minutes per day".
execute.
fre zhuisf.
execute.
*Imputation of the variable HEAVY HOUSEHOLD ACTIVITIES - de variabele zwaar huishoudelijk werk
imputeren.
if (flphya35=2 and flphya36=2 and flphya37<1 and sex=2) flphya37=4.
if (flphya35=2 and flphya36=2 and flphya37<1 and sex=1) flphya37=4.
if (flphya35=2 and flphya36=2 and flphya38<1 and sex=2) flphya38=93.
if (flphya35=2 and flphya36=2 and flphya38<1 and sex=1) flphya38=90.
if (flphya36=2 and flphya37 ge 1 and flphya38 ge 1) zhuisf=(flphya37*flphya38)/14.
if (zhuisf>720) zhuisf=720.
execute.
fre zhuisf.
```

```
execute.
*************************************************************************.
**** PHYSICAL ACTIVITY TOTAL SCORE ***********************.
*************************************************************************.
missing value loopf fietf sport1f sport2f lhuisf zhuisf (-9).
count misactf= loopf fietf sport1f sport2f lhuisf zhuisf (-9).
fre misactf.
execute.
*was activity pattern normal in past two weeks, yes/no.
compute normalf=-9.
if (flphya39=2) normalf=1.
if (flphya39=1) normalf=0.
if (flphya39<1) normalf=-9.
Variable label normalf "was activity pattern normal in past two weeks".
value labels normalf (1)"ja"(0) "nee" (-9) "missing".
execute.
fre normalf.
execute.
compute totactf= SUM. (loopf, fietf, sport1f, sport2f, lhuisf, zhuisf).
Variable label totactf "totale activiteit op f".
compute nspoactf= SUM. (loopf, fietf, lhuisf, zhuisf).
Variable label nspoactf "geen sportactiviteit".
compute spoactf= SUM. (sport1f, sport2f).
Variable label spoactf "sportactiviteit".
fre spoactf nspoactf totactf.
execute.
*************************************************************************.
**** TOTAL SCORE IN KCAL/DAY*********************************.
*************************************************************************.
*assigning MET-scores.
missing value fmed153 (-1 -2 -3).
execute.

compute loopfk= 3.5* fmed153 *(loopf/60).
compute fietfk= 4.5* fmed153 *(fietf/60).
compute lhuisfk=2.5*fmed153 *(lhuisf/60).
compute zhuisfk=4.5* fmed153 *(zhuisf/60).
execute.
*sport1.
if (flphya22 = 1) sport1fk = 4.0* fmed153 *(sport1f/60) .
if (flphya22 = 2) sport1fk = 6.0* fmed153 *(sport1f/60) .
if (flphya22 = 3) sport1fk = 4.0* fmed153 *(sport1f/60) .
if (flphya22 = 4) sport1fk = 4.0* fmed153 *(sport1f/60) .
if (flphya22 = 5) sport1fk = 5.0* fmed153 *(sport1f/60) .
if (flphya22 = 6) sport1fk = 5.0* fmed153 *(sport1f/60) .
if (flphya22 = 7) sport1fk = 3.0* fmed153 *(sport1f/60) .
if (flphya22 = 8) sport1fk = 6.0* fmed153 *(sport1f/60) .
if (flphya22 = 9) sport1fk = 7.0* fmed153 *(sport1f/60) .
if (flphya22 = 10) sport1fk = 5.5* fmed153 *(sport1f/60) .
if (flphya22 = 11) sport1fk = 3.0* fmed153 *(sport1f/60) .
if (flphya22 = 12) sport1fk = 2.5* fmed153 *(sport1f/60) .
if (flphya22 = 13) sport1fk = 3.0* fmed153 *(sport1f/60) .
if (flphya22 = 14) sport1fk = 6.0* fmed153 *(sport1f/60) .
if (flphya22 = 15) sport1fk = 4.0* fmed153 *(sport1f/60) .
if (flphya22 = 16) sport1fk = 6.0* fmed153 *(sport1f/60) .
if (flphya22 = 17) sport1fk = 4.0* fmed153 *(sport1f/60) .
execute.
```

```
*sport2.
if (flphya26 = 1) sport2fk = 4.0* fmed153 *(sport2f/60) .
if (flphya26 = 2) sport2fk = 6.0* fmed153 *(sport2f/60) .
if (flphya26 = 3) sport2fk = 4.0* fmed153 *(sport2f/60) .
if (flphya26 = 4) sport2fk = 4.0* fmed153 *(sport2f/60) .
if (flphya26 = 5) sport2fk = 5.0* fmed153 *(sport2f/60) .
if (flphya26 = 6) sport2fk = 5.0* fmed153 *(sport2f/60) .
if (flphya26 = 7) sport2fk = 3.0* fmed153 *(sport2f/60) .
if (flphya26 = 8) sport2fk = 6.0* fmed153 *(sport2f/60) .
if (flphya26 = 9) sport2fk = 7.0* fmed153 *(sport2f/60) .
if (flphya26 = 10) sport2fk = 5.5* fmed153 *(sport2f/60) .
if (flphya26 = 11) sport2fk = 3.0* fmed153 *(sport2f/60) .
if (flphya26 = 12) sport2fk = 2.5* fmed153 *(sport2f/60) .
if (flphya26 = 13) sport2fk = 3.0* fmed153 *(sport2f/60) .
if (flphya26 = 14) sport2fk = 6.0* fmed153 *(sport2f/60) .
if (flphya26 = 15) sport2fk = 4.0* fmed153 *(sport2f/60) .
if (flphya26 = 16) sport2fk = 6.0* fmed153 *(sport2f/60) .
if (flphya26 = 17) sport2fk = 4.0* fmed153 *(sport2f/60) .
execute.

compute totactfk= SUM. (loopfk, fietfk, sport1fk, sport2fk, lhuisfk, zhuisfk).
Variable label totactfk "totale activiteit op F kcal/day".

compute nspoactfk= SUM. (loopfk, fietfk, lhuisfk, zhuisfk).
Variable label nspoactfk "geen sportactiviteit kcal/day".

compute spoactfk= SUM. (sport1fk, sport2fk).
Variable label spoactfk "sportactiviteit kcal/day".
fre spoactfk nspoactfk totactfk.
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 loopf_meth= 3.5*(loopf/60)*7.
compute fietf_meth= 4.5*(fietf/60)*7.
compute lhuisf_meth=2.5*(lhuisf/60)*7.
compute zhuisf_meth=4.5*(zhuisf/60)*7.
execute.
*sport1.
if (flphya22 = 1) sport1f_meth = 4.0*(sport1f/60)*7 .
if (flphya22 = 2) sport1f_meth = 6.0*(sport1f/60)*7 .
if (flphya22 = 3) sport1f_meth = 4.0*(sport1f/60)*7 .
if (flphya22 = 4) sport1f_meth = 4.0*(sport1f/60)*7 .
if (flphya22 = 5) sport1f_meth = 5.0*(sport1f/60)*7 .
if (flphya22 = 6) sport1f_meth = 5.0*(sport1f/60)*7 .
if (flphya22 = 7) sport1f_meth = 3.0*(sport1f/60)*7 .
if (flphya22 = 8) sport1f_meth = 6.0*(sport1f/60)*7 .
if (flphya22 = 9) sport1f_meth = 7.0*(sport1f/60)*7 .
if (flphya22 = 10) sport1f_meth = 5.5*(sport1f/60)*7 .
if (flphya22 = 11) sport1f_meth = 3.0*(sport1f/60)*7 .
if (flphya22 = 12) sport1f_meth = 2.5*(sport1f/60)*7 .
if (flphya22 = 13) sport1f_meth = 3.0*(sport1f/60)*7 .
if (flphya22 = 14) sport1f_meth = 6.0*(sport1f/60)*7 .
if (flphya22 = 15) sport1f_meth = 4.0*(sport1f/60)*7 .
```

```
if (flphya22 = 16) sport1f_meth = 6.0*(sport1f/60)*7 .
if (flphya22 = 17) sport1f_meth = 4.0*(sport1f/60)*7 .
execute.
*sport2.
if (flphya26 = 1) sport2f_meth = 4.0*(sport2f/60)*7 .
if (flphya26 = 2) sport2f_meth = 6.0*(sport2f/60)*7 .
if (flphya26 = 3) sport2f_meth = 4.0*(sport2f/60)*7 .
if (flphya26 = 4) sport2f_meth = 4.0*(sport2f/60)*7 .
if (flphya26 = 5) sport2f_meth = 5.0*(sport2f/60)*7 .
if (flphya26 = 6) sport2f_meth = 5.0*(sport2f/60)*7 .
if (flphya26 = 7) sport2f_meth = 3.0*(sport2f/60)*7 .
if (flphya26 = 8) sport2f_meth = 6.0*(sport2f/60)*7 .
if (flphya26 = 9) sport2f_meth = 7.0*(sport2f/60)*7 .
if (flphya26 = 10) sport2f_meth = 5.5*(sport2f/60)*7 .
if (flphya26 = 11) sport2f_meth = 3.0*(sport2f/60)*7 .
if (flphya26 = 12) sport2f_meth = 2.5*(sport2f/60)*7 .
if (flphya26 = 13) sport2f_meth = 3.0*(sport2f/60)*7 .
if (flphya26 = 14) sport2f_meth = 6.0*(sport2f/60)*7 .
if (flphya26 = 15) sport2f_meth = 4.0*(sport2f/60)*7 .
if (flphya26 = 16) sport2f_meth = 6.0*(sport2f/60)*7 .
if (flphya26 = 17) sport2f_meth = 4.0*(sport2f/60)*7 .
execute.

compute totactf_meth= SUM. (loopf_meth, fietf_meth, sport1f_meth, sport2f_meth, lhuisf_meth, zhuisf_meth).
Variable label totactf_meth "total activity in f-wave in  METhours/week".

compute nspoactf_meth= SUM. (loopf_meth, fietf_meth, lhuisf_meth, zhuisf_meth).
Variable label nspoactf_meth "no sport activity f-wave METhours/week".

compute spoactf_meth= SUM. (sport1f_meth, sport2f_meth).
Variable label spoactf_meth "sport activity in f-wave METhours/week".

fre spoactf_meth nspoactf_meth totactf_meth.
execute.
```