

Chapter 5 – Data File Management

Using the college student data, solve the following problems:

- 5.1. Compute a new variable labeled *average overall* evaluation (*aveEval*) by computing the average score ($evalinst + evalprog + evalphys + evalsocl$)/4.
- Select **Transform** => **Compute** type *aveEval*
 - Type or click the formula shown above into the **Numeric Expressions** box. => **OK**.

You should check the new variable to make sure you typed the formula correctly. You can visually compute a few by examining these four variables in the **Data View**, and/or running **Descriptives** on the new variable, *aveEval*, to check if the results seem reasonable. *Valid N (listwise)* = 49; *Minimum* = 1.75; *Maximum* = 4.25; *Mean* = 3.1224.

- 5.3 **Count** the number of types of TV shows that each student watches.
- Select **Transform** => **Count**
 - Move *tv sitcom*, *tvmovies*, *tv sports*, and *tv news* into the **Numeric Variables** box.
 - Name the **Target Variable** *TVShows* and label it *Number of types of TV shows watched*.
 - Click **Define Values** => type “1” => **Add** => **Continue** => **OK**.

Each of the four types of TV shows are coded 1 for yes, watch them, or 0 for no, don't watch, so the above commands count the number of different types of shows watched, from 0 (none of them) to 4 (all four). The COUNT can be evaluated visually by inspecting the Data View and/or by running **requencies** on the new variable. The mean number of types of TV shows watched is 1.98 and the mode is 2.00. 14 students watch 1 type of TV show; 23 students watch 2 types of TV shows; 13 students watch 3 types of TV shows.

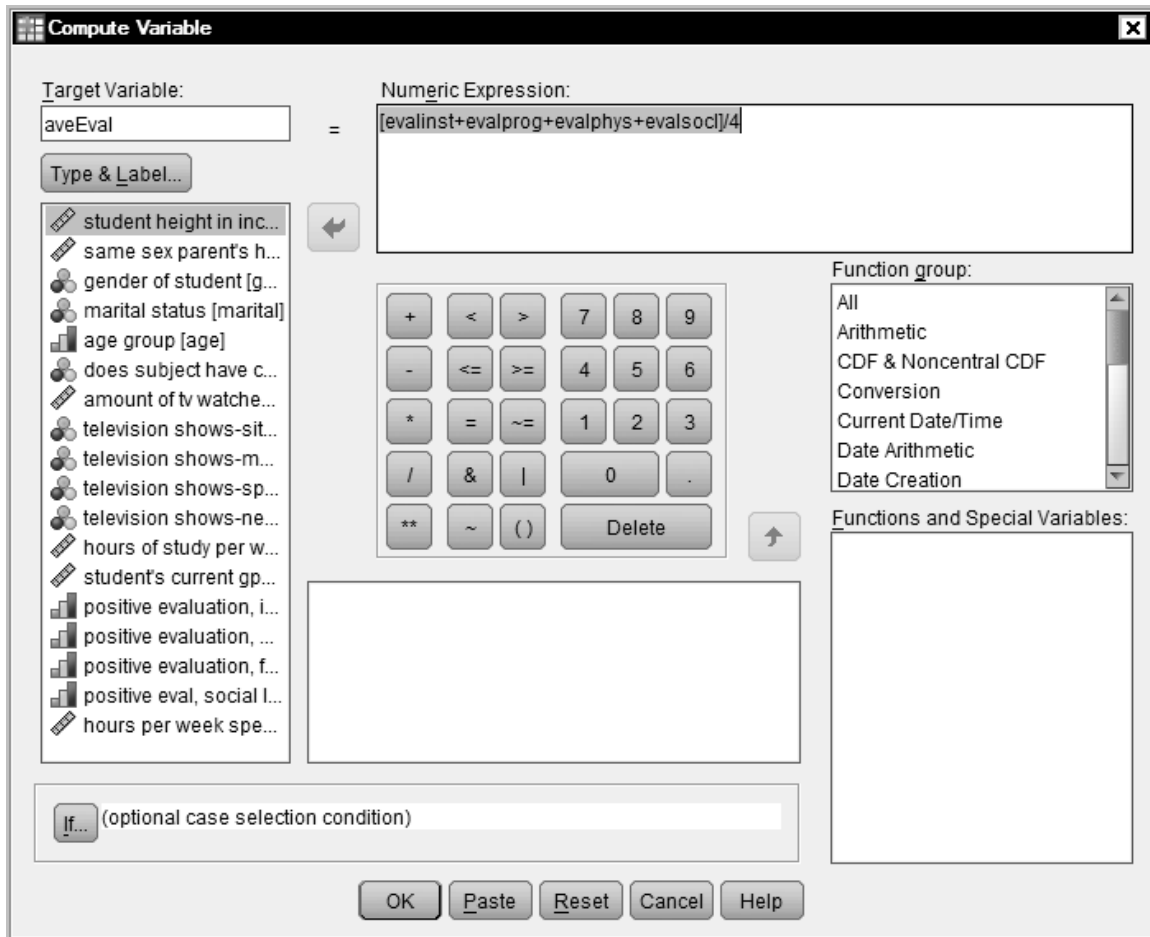


Fig. E. 11

Ch. 5 Output 5.1

```
COMPUTE aveEval= (evalinst+evalprog+evalphys+evalsocl)/4 .
EXECUTE .\
```

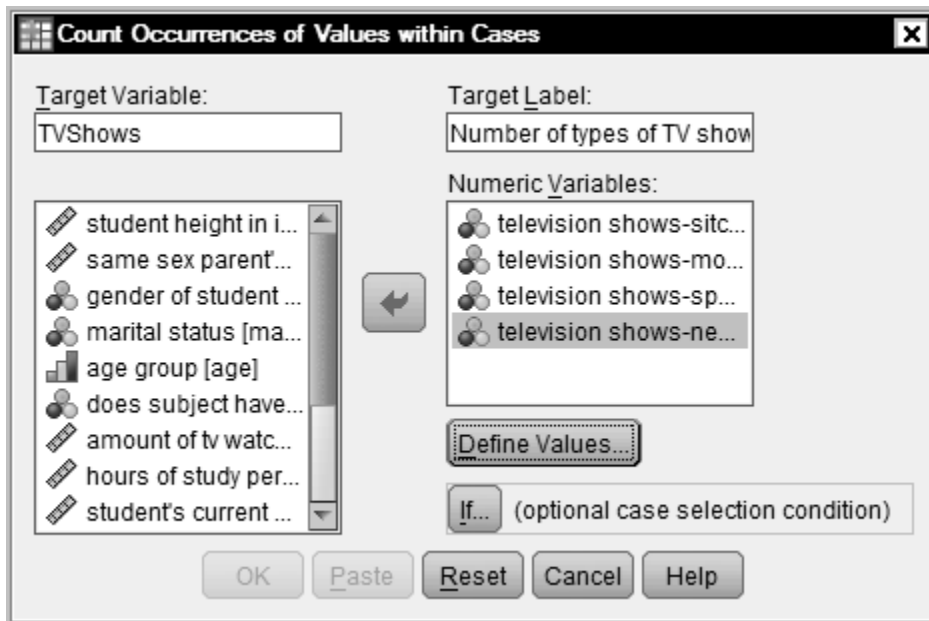


Fig. E.12

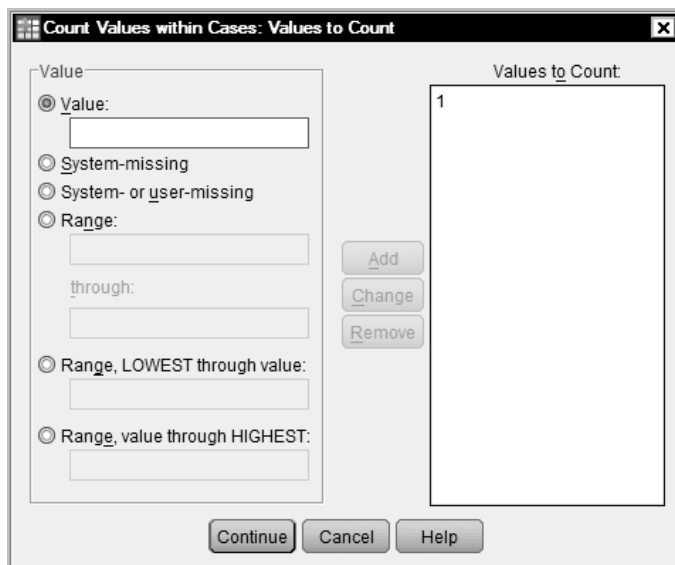


Fig. E. 13

Ch. 5 Output 5.3

COUNT

```
TVShows = tvsitcom tvmovies tvsports tvnews (1).
VARIABLE LABELS TVShows 'Number of types of TV shows watched '.
EXECUTE.
```