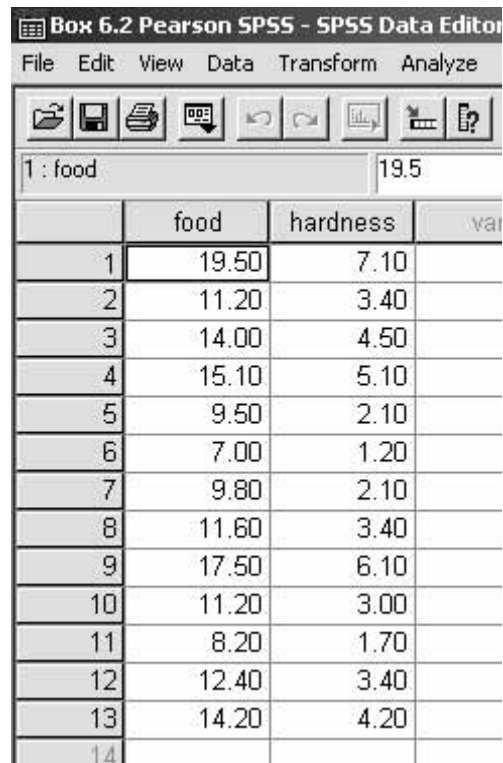


Transfer to data view using the tabs at the bottom left, and enter the data.



The screenshot shows the SPSS Data Editor window titled "Box 6.2 Pearson SPSS - SPSS Data Editor". The menu bar includes "File", "Edit", "View", "Data", "Transform", and "Analyze". Below the menu bar is a toolbar with icons for file operations and data manipulation. The main window displays a data table with the following data:

	food	hardness	var
1	19.50	7.10	
2	11.20	3.40	
3	14.00	4.50	
4	15.10	5.10	
5	9.50	2.10	
6	7.00	1.20	
7	9.80	2.10	
8	11.60	3.40	
9	17.50	6.10	
10	11.20	3.00	
11	8.20	1.70	
12	12.40	3.40	
13	14.20	4.20	
14			

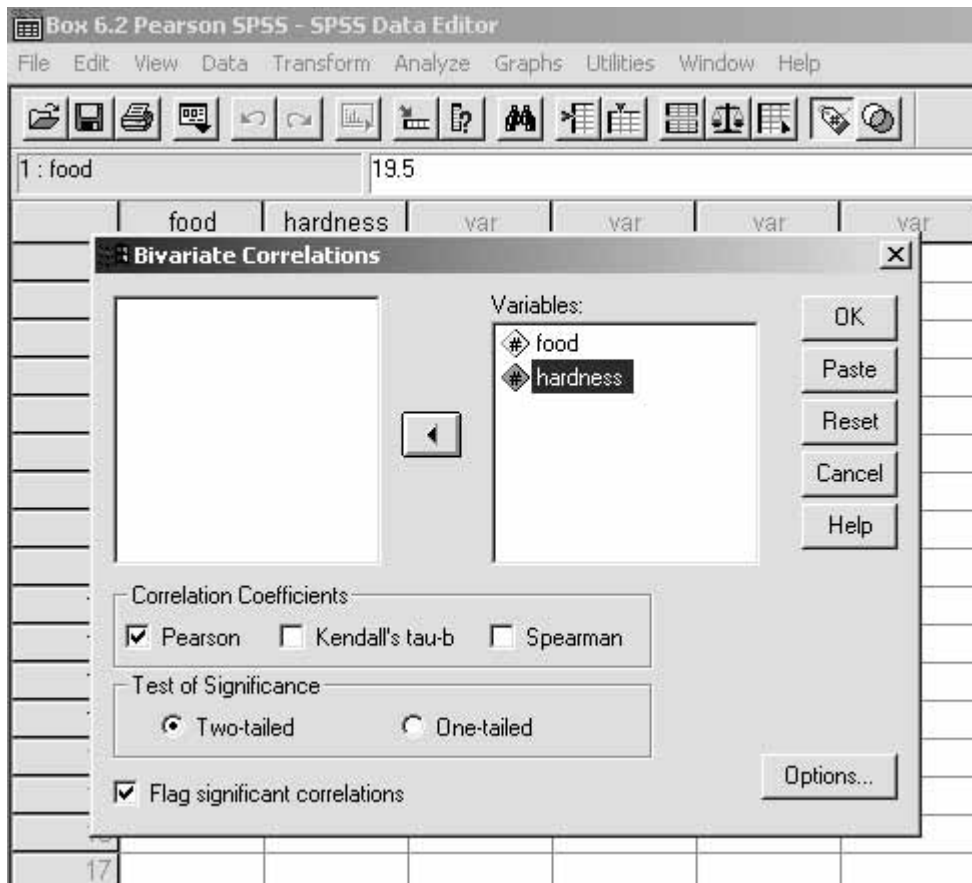
Step 2. Perform the test.

Go to 'Analyze', 'Correlate', 'Bivariate'.

The screenshot shows the SPSS Data Editor window titled 'Box 6.2 Pearson SPSS - SPSS Data Editor'. The 'Analyze' menu is open, and the 'Correlate' option is selected, which has opened a sub-menu where 'Bivariate...' is highlighted. The data table below shows two variables: 'food' and 'hardness'.

	food	hardness
1	19.50	7.1
2	11.20	3.4
3	14.00	4.5
4	15.10	5.1
5	9.50	2.1
6	7.00	1.2
7	9.80	2.1
8	11.60	3.4
9	17.50	6.1
10	11.20	3.00
11	8.20	1.70
12	12.40	3.40
13	14.20	4.20
14		

Click on 'food' to highlight it, then click on the arrow to transfer it across to the 'Variables' box. Repeat for 'hardness'. Make sure that 'Pearson' is selected.



Click on 'OK'. The results will appear in a new window.

Correlations

Correlations

		FOOD	HARDNESS
FOOD	Pearson Correlation	1	.994**
	Sig. (2-tailed)	.	.000
	N	13	13
HARDNESS	Pearson Correlation	.994**	1
	Sig. (2-tailed)	.000	.
	N	13	13

** . Correlation is significant at the 0.01 level (2-tailed).

Step 3. Decide what the results mean.

SPSS computes a complete correlation matrix, so it includes rather meaningless things such as the correlation of 'food' with itself, and performs the correlations both ways ('food' correlated with 'hardness', and 'hardness' correlated with 'food'), which is a bit of a waste of effort for a Pearson test.

The important numbers here are the correlation coefficient of 0.994 for food and hardness (or hardness and food), which is large and positive (as food increases, so hardness increases), and the 'Sig. (2-tailed)', which is effectively zero: this is the p value, and gives the probability that there is no correlation between the test variables. We therefore conclude that there is a positive correlation between 'food' and 'hardness' at better than $p = 0.01$.