

# Hypothesis Test for the PMCC

## Test Statistic – Solutions

1. Calculate the test statistic for the following data pairs

- |           |                                  |
|-----------|----------------------------------|
| a. 0.970  | Very Strong Positive Correlation |
| b. 0.870  | Strong Positive Correlation      |
| c. 0.853  | Strong Positive Correlation      |
| d. -0.952 | Very Strong Negative Correlation |

2. -0.047 Weak Negative Correlation (Almost 0)  
There is little or no correlation between the average temperature (in degrees Celsius) and the average butterfat content for a group of cows (expressed as a percentage of the milk)

3. 0.141 Weak Positive Correlation  
The higher the total number of each species of common garden bird recorded, the higher the percentage of gardens where each species was seen.

4. 0.489 Moderate Positive Correlation  
The more households living in their own properties the more households that are not doing so for selected regions on East Anglia