## **Variables and Comparison Operators: Activity 1**

### **What is a Variable?**

A variable is a way for us to store a reference to some data for use later on in a script or section of code. These are stored in memory for use by the PowerShell session which has created them, which is often a script or PowerShell ISE instance.

They may be declared in one of two ways:

$Name = Value

Or:

Value | New-Variable –Name “Name”

So the following examples will both produce a variable called “Hello” with the value of “World”:

$Hello = “World”

“World” | New-Variable “Hello”

Take 10 minutes to rearrange the below code snippets into the correct syntax to declare variables:

|  |  |
| --- | --- |
| Original | Rearranged |
| Variable-New “I like trains” –Name “Variable1” | “I like trains” | New-Variable –Name “Variable1” |
| 10 \* 5 = $MathsIsHard | $MathsIsHard = 10 \* 5 |
| -Name EventLog Service-Get $EventLog = | $EventLog = Get-Service –Name EventLog |
| CommonDrive$ “k” –name Get-PSDrive | $CommonDrive = Get-PSDrive –Name “K” |
| [string](10 \* 50 / 5) \* 14 / 10$ StringResult | [string]$StringResult = (10 \* 50 / 5) \* 14 /10 |
| $false = $FalseBoolean | $FalseBoolean = $False |
| $FalseInt $False [int] = | [int]$FalseInt = $False |
| New-Variable | “All my ducks in a line” -Name “Ducks” | “All my ducks in a line” | New-Variable –Name “Ducks” |