1. **Calculate the availability of a computer network knowing that:**
   a) The network was being evaluated during the month of January;
   b) The network was repaired at 00:00 on January 1 and broke down at 00:00 on February 1;
   c) During the period under review, 4 failures were recorded;
   d) The total time that the network was inactive was 18 hours;

2. **Calculate the availability of a network in April knowing that, in this month, had a** breakdown on April 6 during 7 hours and another, on April 23, for 21 hours.

3. **In a *Business Continuity* plan of a company,** it was defined that critical information is copied every day at 1:00 pm and 24:00 to a backup server. An assistance contract was concluded with the computer supplier, the only entity capable of managing the company's systems, with 8-hour response SLA (from 9:00 am to 6:00 pm). Considering that applications can be reestablished by the computer provider from the backup server, calculate the maximum RPO and RTO.

4. A network broke down at 12:00 p.m. on Tuesday and was reinstated at 1pm on Tuesday, fulfilling the DR plan at its limit. Users complain that they have lost their work since 6pm on Monday. **Can indicate the RTO and RPO defined in this plan?**

5. **Monitoring with WMI and Visual Basic Scripts** (only *available on Windows PC´s*)
   a. Run the following VB script to access information about your PC's Time Zone:

   ```
   Option Explicit
   On Error Resume Next
   Dim strComputer
   Dim strWMINamespace
   Dim strWMIQuery
   Dim objWMIService
   Dim colItems
   Dim objItem

   strComputer = "."
   strWMINamespace = "\root\CIMV2"
   strWMIQuery = "SELECT * FROM Win32_TimeZone"
   ```

```
Set objWMIService = GetObject("winmgmts:\\" & strComputer &
strWMINamespace)
Set colItems = objWMIService.ExecQuery(strWMIQuery)

For Each objItem In colItems
    WScript.Echo objItem.Caption
Next
```

b. Run the following VB script to access information about your PC's operating system (version and installation date):

```
Option Explicit
On Error Resume Next
Dim strComputer
Dim strWMINamespace
Dim strWMIQuery
Dim objWMIService
Dim colItems
Dim objItem

strComputer = "."
strWMINamespace = "\root\CIMV2"
strWMIQuery = "SELECT * FROM Win32_OperatingSystem"

Set objWMIService = GetObject("winmgmts:\\" & strComputer &
strWMINamespace)
Set colItems = objWMIService.ExecQuery(strWMIQuery)

For Each objItem In colItems
        WScript.Echo objItem.Caption
        WScript.Echo objItem.InstallDate
Next
```

c. If you compare the previous two scripts, the differences are at the class level and properties that are queried:

```
strWMIQuery = "SELECT * FROM Win32_TimeZone"
```
vs
```
strWMIQuery = "SELECT * FROM Win32_OperatingSystem"
```

WScript.Echo objItem.Caption
Vs
WScript.Echo objItem.Caption
WScript.Echo objItem.InstallDate

You can check all classes and their properties available for WMI at the following link:
https://docs.microsoft.com/pt-pt/windows/win32/cimwin32prov/cimwin32-wmi-providers
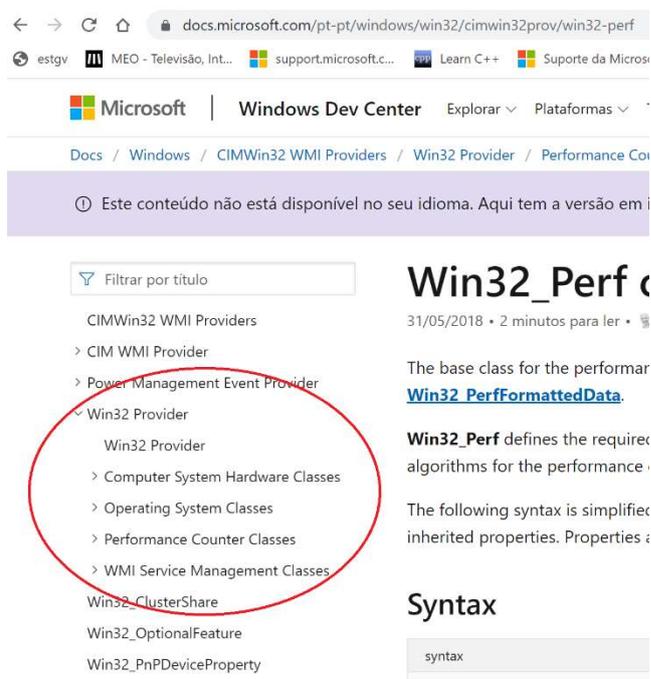
d. Explore available classes and properties and see, for example, the accounts created on your PC or how many cores your processor has.