

Perform the following hands-on activities where possible.

Prior to being assigned to a team look at your own computer system and answer the below questions.

Provide a brief description of your findings/exploration. If you are unable to perform an activity describe why and what you would have expected to experience if you were able to complete the activity.

• **Convert Between Binary and Other Numbering Systems**

$$\begin{array}{cccccccc} \textcircled{0} & 0 & 1 & 1 & 0 & 0 & 1 & 0 \\ \hline 128 & 64 & 32 & 16 & 8 & 4 & 2 & 1 \\ \hline & & \downarrow & \downarrow & & & \downarrow & \\ 2^7 & & 2^5 & 2^4 & & & 2^1 & 2^0 \\ \hline & & 32 & 16 & & & 2 & \\ \hline & & 32 & 16 & & & 2 & = \textcircled{50} \end{array}$$

$$\begin{array}{cccccccc} 1 & 1 & 1 & 0 & 0 & 1 & 0 & 1 \\ \hline 128 & 64 & 32 & 16 & 8 & 4 & 2 & 1 \\ \hline \downarrow & \downarrow & \downarrow & & & \downarrow & & \downarrow \\ 128 & 64 & 32 & & & 4 & & 1 \\ \hline 128 & + & 64 & + & 32 & & + & 4 & + & 1 & = \textcircled{229} \end{array}$$

• **Determine the Type of RAM Installed (look at your system hardware settings.)**

4 GB 1333 MHz DDR3

• **Explore Keyboard Layout and Region Settings (comment on your keyboard type)**

I a Mac Laptop

• **Explore Mouse Functionality (what do you use)**

I have a apple mouse

• **Get Hard Disk Information (look at your system hardware settings.)**

1 TB Sata Hard

- Examining Partition and Formatting Settings (look at your system hardware settings.)

1TB

- Sharing a Folder on a Network (what steps are needed?)
 - Go to the Apple menu and choose "System Preferences".
 - From the System Preferences panel, choose "Sharing".
 - On the left you'll have a few options. Towards the top should be "File Sharing", which is what you want. Click on it and make sure the box next to its name is checked off.
 - When the File Sharing section loads, you'll see two boxes. The left box will contain shared folders and the right box will contain the users that can access them. To add a folder, click the + sign underneath the Shared Folders box. Select the folder you want and press the Choose button.
 - This folder is now shared, but to the right of it you'll see what users can access this folder over the network and what they can do. For example, if you want them to be able to only read the files in the folder but not make any changes you would choose the "Read Only" option. Whatever you choose, this folder will now be shared across the local network.
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- Comparison Shopping for Hard Drives

Mac uses SATA drives