Activity 1

Complete the table below to identify their purpose, find out a price (these may vary but find one) and how much the device costs per GB/TB (depending on measurement)

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| --- | --- | --- | --- |
| **Device** | **Purpose** | **Price** | **Cost per GB/TB** |
| CD | Useful for storing files and music as a typical track would be 3MB. | £12.57 | 50 pack  12.57/50 = 0.25p (per CD)  Capacity = 700 MB (0.7 GB)  0.25/0.7 = 0.35p (per GB) |
| DVD | Used for storing movies as they can exceed the capacity of a standard CD. | £17.81 | 50 pack  17.81/50 = 0.35p (per DVD)  Capacity = 4.7 GB  0.35/4.7 = 0.08p (per GB) |
| Blu-ray | Predominantly used to playback videos of HD quality. | £43.49 | 10 pack  43.49/10 = 4.34p (per BR-D)  Capacity = 50 GB  4.34/50 = 0.09p (per GB) |

Actvity 2

Identify **one** advantage and **one** disadvantage of using each type of optical storage.

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| --- | --- | --- |
| **Device** | **Advantage** | **Disadvatange** |
| CD | Suitable for saving a small number of files that don’t take up too much space. | Slower to access than the hard disk. |
| DVD | DVDs are now mass produced so they are relatively cheap | DVDs do not work in CD drives |
| Bluray | Very large storage capacity 25-50 Gb | Using a Blu-ray for backup means that up to 50 GB of data is stored on disk, which may then break. That is a lot of data to lose. |

Activity 3

Identify what these different classification codes mean.

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| CD-ROM | Once the pits are burnt on to the surface, that part of the disk cannot be used again for storage although it can be re-played endless times. |
| CD-RW | This means that you can save data to your disk over and over again |
| DVD-R | Used to write data only once and can read data multiple times. |
| DVD+R | Used to write and read data multiple times. |
| BD-ROM | Read-only format for distributing HD films, computer games, software etc |
| BD-R | One-time recordable format for HD video recording and data storage |
| BD-RE | Rewritable format |