Name: Class:

Task 1

Match the words on the left to their meaning on the right.

|  |  |  |
| --- | --- | --- |
| **Word** |  | **Meaning** |
| Server |  | Storing data on the Internet |
| Data centre |  | An item of hardware which responds to requests by processing data and sending replies |
| Cloud storage |  | A centralised collection of servers stored in on building |
| Scalability |  | Having more than one copy of files stored on a different hard drive or at a different location |
| Redundancy |  | The ability to easily increase the size of computing storage or processing power |

Task 2

(a) Complete the table below to show whether each statement is an advantage or a disadvantage of cloud storage.

|  |  |  |
| --- | --- | --- |
|  | **Advantage** | **Disadvantage** |
| Easy to increase the amount of storage available without buying new servers (scalability) |  |  |
| Data stored by a 3rd party company, so processes aren’t known and less control |  |  |
| Data stored in multiple locations (redundancy) |  |  |
| Highly trained professionals to keep data secure and available |  |  |
| It can take a long time to upload or download files |  |  |
| Many devices can synchronise to the same files |  |  |

(b) What are **two** other advantages of using cloud storage?

(c) What is **one** other disadvantage of using cloud storage?

**Task 3**

A company has a server which currently is storing 1 TB of data.

At the moment they make use of a tape drive to back up their data which all fits on one magnetic tape. The backup is carried out at the end of the day and takes about 1 hour.

They are considering moving to a cloud storage backup system.

Currently, the company understands that downloads of data will take around 10 minutes for 1GB.

The company is considering the time needed to fully restore all data to a new hard drive

(a) How long will this take using local storage?

(b) How long will this take using the cloud storage backup system?

(c) What advice do you give the company regarding the cloud storage backup system?

(d) How could the cloud storage backup system be improved in the situation where a full restore is needed?