



GCSE Computer Science - Topic 1.3 Storage

What I need to know:

Define primary storage	Jason has bought a new laptop. The laptop contains 3 GB RAM and 128 GB secondary storage.
Define secondary storage	a) Explain why secondary storage is needed in addition to RAM.
Define tertiary storage	a) Explain why secondary storage is needed at a second secondary storage is needed at a second s
Describe the differences between primary, secondary and tertiary storage.	
Describe how data is stored /read on optical storage.	· · · · · · · · · · · · · · · · · · ·
Explain the advantages and disadvantages of optical storage	· ···
Describe how data is stored/read on magnetic storage.	[3]
Explain the advantages and disadvantages of magnetic storage	Color is gatting a system built computer. She has a chains of the sections
Describe how data is stored/ read on solid state storage.	Caley is getting a custom-built computer. She has a choice of two options for secondary storage: A 500 GB HDD (10000 rpm) or a 128 GB SSD. For each storage option, give reasons why Caley may choose it over the other option.
Explain the advantages and disadvantages of solid state storage.	
Define capacity.	500 GB HDD
State which storage devices have the highest and lowest capacity.	
Define read-write speed.	128 GB SSD
State which storage devices have the highest and lowest read-write	
speed.	[Total 4 marks]
Define portability.	William transfers the videos to a computer for editing.
State which storage devices are the most and least portable.	
Define durability.	(i) The computer has 1GB of storage free.
State which storage devices are the most and least durable.	Calculate the number of videos that could be stored on the computer if each video was
Define reliability.	100MB in size.
State which storage devices are the most and least reliable.	Show your working.
Define cost.	
State which storage devices are the most and least expensive.	
List the order of binary units from smallest to largest	[2]
Calculate how many Kb are in 6.7Mb. Show your working.	Explain why a magnetic hard dick would be an unmitched store as two for an estimation
Calculate how much data 3 CD-ROMs can hold in MB. State how many Gb this is.	Explain why a magnetic hard disk would be an unsuitable storage type for an action camera.
Calculate how many Kb are in 2Tb.	[2]