

Knowledge Check 13: Data Storage

Due No due date	Points 0	Questions 4
Time Limit None	Allowed Attempts Unlimited	

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Attempt History

	Attempt	Time	Score
LATEST	<u>Attempt 1</u>	2 minutes	0 out of 0

Submitted Feb 23 at 9:38am

Question 1

0 / 0 pts

Where is database stored in a computer?

☐ Central Processing Unit

☒ Hard disk

A database is stored in the hard disk of a computer.

☐ Memory

☐ Cache

Correct!

Question 2

0 / 0 pts

What is the correct order of processing speed of major units in a computer from the fastest to slowest?

☐ Cache, CPU, memory, hard disk

Correct Answer

You Answered

☐ Hard disk, memory, cache, CPU☐ CPU, cache, memory, hard disk☒ CPU, memory, cache, hard disk

This is not correct; cache is faster than memory.

Question 3**0 / 0 pts**

Why is the processing speed of a traditional computer hard disk lower than a modern solid state drive (SSD)?

Correct!

☒ Because hard disk is a mechanical device.

Contrary to solid state drive, a hard disk has to spin and spend more time to find a requested data byte.

☐ Because solid state drive is a mechanical device.☐

Because the size of a solid state drive is bigger than that of a hard disk.

☐ Because a hard disk can only read pages in sequence.**Question 4****0 / 0 pts**

Who is responsible for the mapping, cleaning, and wear-leveling in SSD?

Correct!

☒ FTL

FTL is the core part of SSD and it will take care of all the works described above

- ☐ The RAM
- ☐ The I/O bus
- ☐ The NAND flash chips