

Practical 1
Computer Hardware Research

Part C

Objective

You have been asked by a family friend to assist them with a computer purchase. They're unfamiliar with technology and the terms used and have presented you with two alternatives machine choices. They would like to be able to write word documents, surf internet and play Minecraft © Mojang and Half-Life © Valve Software. They are considering playing Fortnite but are not sure yet, as it depends on machine cost and if they can extract some money from their Bitcoin wallet.

Compare Personal Computer Option A and B in relation to each of the side headings and recommend a system and any alterations.

	Personal Computer Option A	Personal Computer Option B
CPU	2.2 GHz Intel Celeron 450	3.2 GHz Intel Core i5
Memory		
Cache	512 KB Cache	4 MB Cache
RAM	4 GB RAM	8 GB RAM
Hard Drive	320 GB Hard Drive	1 TB Hard Drive
CD-ROM/DVD	DVD+/-RW drive	DVD+/-RW drive
Input/Output		
Keyboard	USB multifunction keyboard	wireless multifunction keyboard
Pointing Device	USB optical mouse	wireless optical mouse
Screen	20" HD flatscreen monitor	25" HD flatscreen monitor
Speakers	Multimedia Speaker System	Dolby Surround Sound Speakers
Network Adapter	Integrated 10/100/1000 Ethernet	Integrated 10/100/1000 Ethernet

Recommendations

If price is no issue, option B is the objectively better purchase as each component is just superior to option A's. Intel CPU's do come with integrated graphics so you can get away with LIGHT gaming but the recommendation would be to slap some budget GPU in there like a 1650 or a 1050ti.

B would probably run half life no problems, minecraft wouldn't run great and would probably have difficulty running Fortnite without a GPU.