

8 A student has a computer that has a central processing unit (CPU).

(a) Describe the role of the CPU in the computer.

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..... [2]

(b) The CPU contains registers.

(i) State the purpose of a register.

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..... [1]

(ii) Give **three** registers that are built into the CPU.

1 .....  
2 .....  
3 ..... [3]

(c) One component in the CPU is the arithmetic logic unit (ALU).

Describe the purpose of the ALU.

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..... [3]

(d) The student wants to replace the CPU to increase the performance of the computer.

Explain why a different CPU can increase the performance.

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..... [4]