

## The fetch-decode-execute cycle

There are **three** steps to processing instructions given by a currently running program:

- 1. The fetch cycle takes the address required from memory, stores it in the instruction register, and moves the program counter on one so that it points at the next instruction.
- 2. The control unit checks the instruction in the instruction register. The instruction is decoded to determine the action that needs to be carried out.
- 3. The actual actions that happen during the execution cycle depend on the instruction itself.