

1. 0110 1111 0000 0001
2. 1111 1110 1101 0011
3. 28417
4. -4,059
5. 28417
6. 8747
7. 57381
8. a
9. 6
10. 1111 1110 1101 0011
11. 64 billion
12. 2
13. 36
14. 2
15. 16 million
16. 1
17. 24
18. 1
19. Fetch: load MAR with contents of pc and increment pc
Decode: Examine instruction to figure out what the computer needs to do
Execute: carries out execution of instruction
20. 16, each opcode is 4 bits so 2^4 is 16
21. It can instantly access any location in memory, does not have to be sequential
22. Do operations on registers, ADD
23. Move data from registers to memory, LDR
24. Changes the sequence of instruction execution by changing the program counter, JMP