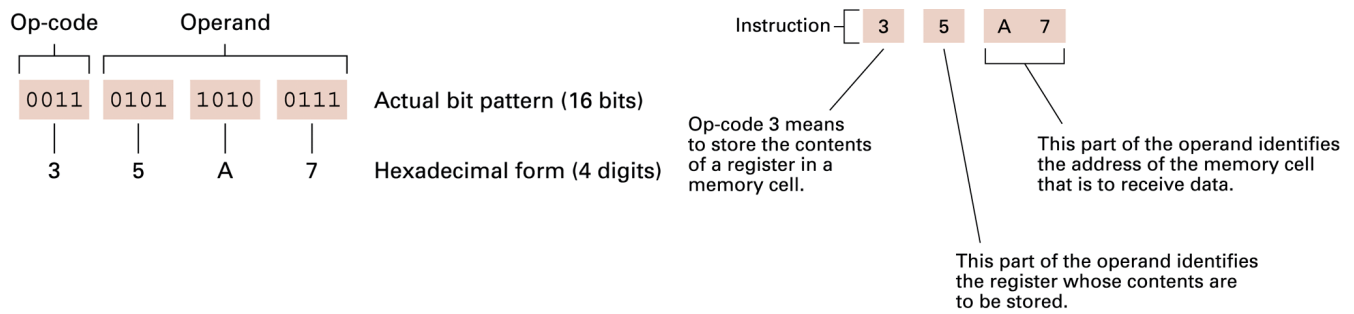


# Model 1 Machine Instructions



## Questions (8 min)

Start time: \_\_\_\_\_

1. How many bits is the op-code? How many possible op-codes can the machine support?
2. The op-code for loading data from memory into a register is 1. Write an instruction (in hex) for loading data from address 3D into register 4.
3. Why is the instruction register in ?? twice as large as the other registers? How many memory cells are needed to store a single instruction?