

Name: _____

Computer Science Brain Teaser

1. Finish the Fibonacci Sequence below:

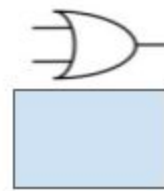
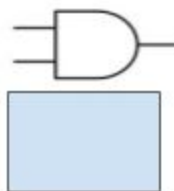
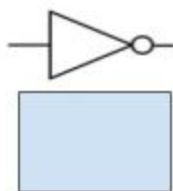
0, 1, 1, _____, _____, _____, _____, _____, _____

2. Which logic gate has the truth table shown below?

- a) **AND** gate
- b) **OR** gate
- c) **NOT** gate

A	B	X
0	0	0
0	1	0
1	0	0
1	1	1

3. Name the logic gate! Write the name of the logic gate to the corresponding logic diagram symbol in the boxes below.



4. The binary digit, 0 means what? (choose all that apply)

- a.) ON
- b.) OFF
- c.) TRUE
- d.) FALSE

5. The binary digit, 1 means what? (choose all the apply)

- a.) ON
- b.) OFF
- c.) TRUE
- d.) FALSE

6. What is the difference between hardware and software?

Bonus Questions:

Remember the binary number system uses only 1's and 0's.

- Convert the decimal number 5 to Binary.
- What is 1000 equal to in the decimal number system?
- Finish the Fibonacci square(spiral) below

3	2
	1 1

Who was Ada Lovelace?

- a) First president b) First computer programmer c) The First inventor