

### Problem 1:

1. What is the difference between an Algorithm and a Program?

(a) An algorithm is conceptual idea, a program is a concrete instantiation of an algorithm

2. True or False? A computational mode of thinking means that everything can be viewed as a math problem involving numbers and formulas.

True

3. Computer Science is the study of how to build efficient machines that run programs.

True

4. The two things every computer can do are:

(a) Perform calculations

(b) Convert electricity to numbers

5.  $4 * a + 7 / (x - y) + (n ** 3)$

(c)  $4 * a$

### Problem 2:

1. A sequence of instructions is call a flowchart

2. Writing Python statements is called coding

3. Flowchart

4. pseudo code

5. /

### Problem 3:



