

# Definitions

## "Data" (review)

"Numbers that represent (in any possible way) something of interest to human beings"

## "Data Processing"

"A series of simple logical and arithmetical operations performed on the data to achieve some useful result"

## "Algorithm"

"A precise, but conceptual, description of those logical and arithmetical operations"

## "Programming Language"

"A language that can unambiguously document the logical and arithmetical operations that the computer can run."

## "Program"

"A specific implementation of an algorithm in a specific computer language."

## "Computer"

Computers are defined by the three capabilities they must have:

1: The ability to do simple logical operations (and because of that, simple arithmetic)

2: Memory to store both data and programs

3a: The ability to do the logical operations specified in the program, in the order specified

3b (the most important part): The ability to compare two data numbers, and then jump to another part of the program based on that comparison