Many Representations of an Algorithm

1. Verbal form

**Gross Pay**
If the hours worked are less than (or equal to) 40, the pay is the product of the number of hours worked and the rate (of ten dollars an hour). Also, if more than 40 hours are worked, the pay is 15 dollars an hour (time-and-a-half) for any time over 40.

2. Pseudo-code (and JJ)

```plaintext
Input h

If (h <= 40) then
    Set p = 10 * h
Else
    Set p = 10 * 40 + 15 * (h - 40)
EndIf

Output ln p
```

4. Graph (plot)

![Graph](image)

5. Data Flow Diagram (DFD)

![Data Flow Diagram](image)

Flow of control (actions) emphasizes the HOW

Flow of data emphasizes the WHAT