

# Problem Solving Worksheet

1. Write defining diagrams (IPO charts) for the following problems:

- (a) Read the score of a student for a test with a maximum mark of 20. Determine and print the percentage.
- (b) Read the number of printers purchased from a Computer Store and the cost for one printer. Determine and print the total cost of the printers purchased.

2. Create dry runs for the IPO charts in question one above.

3. Use the letters **A to D**, which represent the terms, and the numerals **I to V**, which represent the meanings, to match the each term with the correct meaning. A meaning may be used once or not at all.

## Term

(A) Test Data

(B) Live Data

(C) Program Trace

(D) Dry Run

## Meaning

(I) A manual check of the accuracy of a program.

(II) Using software to check the accuracy of a program.

(III) Mock data used to check the correctness of a program.

(IV) The process of checking the accuracy of a program.

(V) Real data used to check the correctness of a program.