

Problems

- 1.1 Write an algorithm and draw a flowchart to calculate and print the sum and average of three numbers.
- 1.2 Write an algorithm and draw a flowchart to read a distance in millimeters and print it in meters, centimeters, and millimeters.
- 1.3 At the beginning of a journey the reading on a car's odometer is S kilometers and the fuel tank is full. After the Journey the reading is F kilometers and it takes L liters to fill the tank. Write an algorithm and draw a flowchart to calculate and print the rate of fuel consumption in Km/liter.
- 1.4 A farmer has a field B meters wide, L meters long. The field yields C cubic meters grain per feddan (1 feddan = 4000 square meters). The farmer has a number of cylindrical grain silos, R meters in radius, H meters in height in which he stores the harvest. Write an algorithm and draw a flowchart that calculates and prints the number of the used silos.
- 1.5 A magnetic tape is L meters long, 800 bytes/cm recording density, R cm / sec reading speed, and 25 millimeters gap between records. Write an algorithm and draw a flowchart which outputs:
 - a) The amount of information that can be stored on the tape when the record size is 512 bytes.
 - b) The time taken to read the entire tape.