Question 1:

Your company needs a program to compute the amount to charge customers for mowing their lawns for an entire season. An employee will type in the total area of the customer’s lawn in square feet. Your company charges 10 cents per square foot to mow a lawn one time and will mow each lawn once a week for 15 weeks.

Answer 1:

|  |  |  |
| --- | --- | --- |
| INPUT | PROCESS | OUTPUT |
| Customers lawn in Square feet.   * Width in inches * Height in inches | For each lawn.   * Compute amount to Charge Sq. fit * Multiply area by $ 10 cent * Add cost of customer per week * Multiply cost per week by 15 weeks | The total area of the customer’s lawn in Square feet. |
|  |  |  |

**Question 2:**

You have been asked to write a computer program that will output an employee’s after-tax pay. Your program will read from the keyboard the number of regular hours and overtime hours that the employee worked and the employee’s regular hourly wage. The employee is paid a bonus of 1.5 times regular pay for each overtime hour worked. Tax is 15% of the employee’s gross pay.

Answer 2:

|  |  |  |
| --- | --- | --- |
| INPUT | PROCESS | OUTPUT |
| Employee’s regular hourly wage  Employee’s overtime hours  Employee’s regular hours | Hour of employee’s   * Compute regular hour wage with overtime and bonus for each paid * Compute Tax to be paid by multiply wages by 15% and deduct the result from wages | Total of employee’s gross pay after deducting tax |

Question 3:

Which of the following are control structures? (Mark all that apply.)

Answer 3:

* sequence
* selection
* repetition