**Review Questions**

For each of the following problems write a defining table. Then write an algorithm with numbered steps to solve the problem. Then label each step with the name of the basic computer operation that the computer will use during that step.

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.

**Defining Table**

|  |  |  |
| --- | --- | --- |
| **Input** | **Processing** | **Output** |
|  |  |  |

1. 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.

**Defining Table**

|  |  |  |
| --- | --- | --- |
| **Input** | **Processing** | **Output** |
|  |  |  |

1. Which of the following are control structures? (Mark all that apply.)
2. input
3. computation
4. sequence
5. selection
6. repetition
7. try, catch, and throw
8. storage
9. output