

Name _____

Practice with Flowcharts

Here is some pseudocode to solve several different problems. The purpose of this assignment is to determine that you understand the flow of logic. You will be determining what is printed in the output statement at the end of each. Then, provide the corresponding flowchart for each. There are no (intentional) errors in the pseudocode.

Question #1

```
{
    float price = 43.25;
    float discount = 0.65;
    float total;

    total = price * discount;

    print total;
}
```

Question #2

```
{
    int x = 6;
    int result;

    result = sqr(x) * sqr(12);

    print result;
}
```

Question #3

```
{
    int a, b;
    int c, d;

    a = 8;
    b = a;
    c = b + sqr(b);
    d = ( a + b ) * ( c - a );

    print c;
}
```

Question #4

```
{
    float score1, score2, score3;
    float average;
    string grade;

    score1 = 86.3;
    score2 = 97.8;
    score3 = 64.0;
    average = ( score1 + score2 + score3 ) / 3;
    if ( average > 90 ) then
        grade = "A";
    else-if ( ( average >= 80 ) && ( average < 90 ) ) then
        grade = "B";
    else
        grade = "C";

    print grade;
}
```

Question #5

```
{
    int x = 5, y = 2, z = 10;

    if ( x > 5 || x < 12 ) then
        print x;
    else-if ( y > 5 ) then
        print y;
    else
        print z;
}
```