# M00 - Page 77: Short Answer (1-7); True/False (22-26)

## Short Answer

1. How many operands does each of the following types of operators require?

Unary: 1  
Binary: 2  
Ternary: 3

2. How may the double variables temp, weight, and age be defined in one statem ent?

double temp, weight, age;

3. How may the int variables months, days, and years be defined in one statement, with months initialized to 2 and years initialized to 3?

int months = 2, years = 3, days;

4. Write assignment statements for perform the following operations with the variables a, b, and c:

A. int b = a + 2; (assuming a is an int)   
B. int a = b \* 4; (assuming b is an int as defined above)   
C. float b = a / 3.14;   
D. int a = b - 8; (assuming b is an int as defined above)   
E. int a = 27;   
F. unsigned char c = 'K';   
G. unsigned char x = 'B'; short c = x;

5. Is the following comment written using single-line or multj-line comment symbols?

/\* This program was written by M. A. Codewriter\*/

Multi-line

6. Is the following comment written using si ng le- line or multi-line comment symbols?

// This program was written by M. A. Codewriter

Single-line

7. Modify the following program so it prints two blank lines between each line of text.

#include <iostream>  
using namespace std;  
int main()  
{  
 cout << "Two mandolins like creatures in the";  
 cout << "dark":  
 cout << "Creating the agony of ecstasy.";  
 cout << " George Barker";  
 return 0;  
}

Modified:

#include <iostream>  
using namespace std;  
int main() {  
 cout << "Two mandolins like creatures in the\n\n\n";  
 cout << "dark" << endl << endl << endl;  
 cout << "Creating the agony of ecstasy.\n\n\n";  
 cout << " George Barker\n\n\n";  
  
 return 0;  
}

## True/False

22. TRUE - A variable must be defined before it can be used.  
23. FALSE - Variable names may begin with a number.  
24. FALSE - Variable names may be up to 31 characters long.  
25. TRUE - A left brace in a C++ program should always be followed by a right brace later in the program.  
26. FALSE - You cannot initialize a named constant that is declared with the const modifier.