```
1) What will the variable flag equal here?
            bool flag = (21 == 7*3);
2) What will the variable flag equal here?
            bool flag = (6 + 2 < 15\%5);
3) What's the difference between = and ==
4) What does | | mean in an if statement?
5) What does && mean in an if statement?
6) What will this print?
int cats = 6;
if (cats < 12)
{
      cout << "She has " << cats << " cats.\n";</pre>
}
else if (cats < 6)
      cout << "She is crazy, and has " << cats << " cats.\n";</pre>
}
else
{
      cout << "She is completely crazy with " << cats << " cats.\n";</pre>
7) What will this print? (hint see question 5, equivalence v assignment, this is a trick question)
int cats = 6;
if (cats = 1)
      cout << "She has one cat.\n";</pre>
}
else if (cats < 4)
      cout << "She has " << cats << " cats.\n";</pre>
}
else
{
      cout << "She is crazy, and has " << cats << " cats.\n";</pre>
}
```

8) The following code fragment is supposed to print whether the int variables value is odd or even, but it doesn't work. How can it be fixed?

```
switch (value%2)
    {
         case 0:
              cout << "Even integer!" << endl;</pre>
         case 1:
              cout << "Odd integer!" << endl;</pre>
    }
9) What will this print?
    int i = 5;
    while (i < 10)
         cout << "The number is " << i << endl;</pre>
         ++i;
    }
10) What will this print?
      for (int i = 0; i < 10; i += 2)
            cout << "The number is " << i << endl;</pre>
      }
11) What will this print?
    for (int i = 0; i < 6; ++i)
         cout << "The number is " << i << endl;</pre>
         if (i == 3)
              break;
         }
    }
12) What will this print?
      for (int i = 0; i < 6; ++i)
             if (i == 3)
             {
                   continue;
            cout << "The number is " << i << endl;</pre>
      }
```

13) Assuming the #include <cmath> library is in use, what will this print? float fl = 66.6; cout << floor(fl) << endl;</pre> cout << round(fl) << endl;</pre> 14) Assuming the #include <cmath> library is in use, what will this print? cout << sqrt(9) << endl;</pre> 15) What does this foobar() function do? char foobar(char foo) if (foo > 'Z')int bar = ('a' - 'A'); foo = foo - bar; return foo; } 16) What does this barfoo() function do? int barfoo(int foo, int bar) if (foo > bar) { return foo; return bar;

}

17) What will this program print when run?

```
int gThing = 5;

void myfunction(int j)
{
    j = j + gThing;
    cout << "j: " << j << endl;
}

int main()
{
    int i = 8;
    myfunction(i);
    cout << "i: " << i << endl;
    return 0;
}</pre>
```

18) **3 pts**. Write a C++ program that will print a <u>multiplication table</u> in the following form:

Your program must not-of course, consist entirely of cout statements. Use for loops.