**Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Quiz – Object Behavior**

1. Trace through the following code. In the box provided, show everything exactly as it would appear on the output screen.

public class Quiza4{

public void aMethod(int j, int q){

j += 10;

q \*= 3;

System.out.println(“In the method“);

System.out.println(“j = “ + j);

System.out.println(“q = “ + q);

}

}

public static void main(String[] args){

Quiza4 test = new Quiza4();

int m = 5;

int s = 7;

System.out.println(“m = “ + m);

System.out.println(“s = “ + s);

test.aMethod(m,s);

System.out.println(“After the method call“);

System.out.println(“m = “ + m);

System.out.println(“s = “ + s);

}

1. Which of the following could serve as a post condition for the following method?

public int process(double amount){

//precondition: amount represents cost of goods in dollars and cents

//postcondition: <…>

return (int)(amount \* 100)/100;

}

1. Returns the cents portion in amount
2. Returns the number of whole dollars in amount
3. Returns amount rounded to the nearest integer
4. Returns amount truncated to the nearest integer
5. Returns amount converted to cents

3. Trace through the following code. In the box provided, show everything exactly as it would appear on the output screen.

public class Quiz4aQ3{

private int myNum;

public Quiz4aQ3(int n){

myNum = n;

}

public void one(int x){

x += myNum;

print(x, myNum, 0);

}

public void two(int x, int y){

int myNum = 1;

x += myNum;

print(x, y, myNum);

}

public void three(int x, int y, int z){

x += myNum;

int m = x + y + z;

print(x, myNum, m);

}

public void print(int first, int second, int last){

System.out.println(first + “ “ + second + “ “ + last);

}}

public static void main(String[] args){

int a = 3;

int b = 2;

int c = 5;

Quiz4aQ3 sample = new Quiz4aQ3(7);

sample.print(a,b,c);

sample.one(a);

sample.print(a,b,c);

sample.two(a,b);

sample.print(a,b,c);

sample.three(a,b,c);

sample.print(a,b,c);

}

Bonus Questions

1. What comes next in this series? (2 points)

0, 3, 8, 15, 24, 35, 48.......

1. A doctor and a bus driver are both in love with the same woman, an attractive girl

with the unusual name of Pibbles. The bus driver had to go on a long bus trip that

would last a week. Before he left, he gave Pibbles seven apples. Why? (2 points)

1. Can you take 4 7's and arrange them with any math symbols needed to make the

total be 100? (2 points)

1. A man walked into a family owned store. He asked the clerk if the store carried any asparagus. The clerk replied no. The next day the same man walked in and asked the same clerk if the store carried any asparagus. The clerk again replied, no. The next day, once again, the man walked in and asked the same clerk if the store carried asparagus. The clerk replied, "If you ask that again I'll staple your lips together." Knowing the clerk was serious, the man left. The next day the man came in and asked a question. The clerk replied, no. The man, once again, asked, "Does this store carry asparagus?" What did the man ask (where the clerk responded no) that made him brave enough to ask about asparagus? (2 points)

1. What comes next in this series?  
  
 0, 3, 8, 15, 24, 35, 48.......

63  
  
  
1X1-1: 0  
2X2-1: 3  
3X3-1: 8  
4X4-1: 15  
5X5-1: 24  
6X6-1: 35  
7X7-1: 48  
\*8X8-1: 63\*

2.An apple a day keeps the doctor away.

### 3. Answer

**77/.77=100**

4. Do you have any staples?