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

**LOOP QUIZ 1A**

**Show the output of each block of code below. ( 100 points )**

1. What is the output?

for(int i=1; i<6; i=i+2)

{

out.println(i);

}

2. What is the final value of i in the problem above when the for loop is complete?

3. What is the output?

for(int j=6; j>-2; j=j-2)

{

out.println(j);

}

4. What is the final value of j in the problem above when the for loop is complete?

for(int k=1; k<12; k=k+3)

{

out.println(k);

}

5. What is the output?

6. What is the final value of k in the problem above when the for loop is complete?

for(int m=11; m>0; m=m-4)

{

out.println(m);

}

7. What is the output?

8. What is the final value of m in the problem above when the for loop is complete?

9. What is the output?

for(int p=60; p<=100; p+=10)

{

out.println(p);

}

10. What is the final value of p in the problem above when the for loop is complete?

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

**LOOP QUIZ 1B**

**Show the output of each block of code below. ( 100 points )**

1. What is the output?

for(int i=2; i<8; i=i+2)

{

out.println(i);

}

2. What is the final value of i in the problem above when the for loop is complete?

3. What is the output?

for(int j=9; j>-2; j=j-3)

{

out.println(j);

}

4. What is the final value of j in the problem above when the for loop is complete?

5. What is the output?

for(int k=1; k<19; k=k+4)

{

out.println(k);

}

6. What is the final value of k in the problem above when the for loop is complete?

7. What is the output?

for(int m=9; m>0; m=m-2)

{

out.println(m);

}

8. What is the final value of m in the problem above when the for loop is complete?

9. What is the output?

for(int p=20; p<=50; p+=10)

{

out.println(p);

}

10. What is the final value of p in the problem above when the for loop is complete?

Draw the corresponding picture for the loops below. Partial credit given.

11. for(int x = 0; x < 100; x+=40)  
 rect(x,0,40,40);

12. for(int val = 25; val <= 100; val += 25)  
 rect(val,val,25,25);

13. rectMode(CENTER);

for(int siz = 100; siz < 400; siz += 100)  
 rect(200,200,siz,siz);

14. for(int myst = 10; myst <= 50; myst += 10)  
 rect(myst,0,myst,myst);

15. translate(width/2,height/2); //move to middle of screen

for(float theta = 0; theta < 2 \* PI; theta += 2\*PI/4);

{

pushMatrix();

rotate(theta);

translate(40,0);

ellipse(0,0,20,20);

popMatrix();

}