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);
}</pre>
```

- 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?
- 5. What is the output?

```
for(int k=1; k<12; k=k+3)
{
   out.println(k);
}</pre>
```

- 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=11; m>0; m=m-4)
{
   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=60; p<=100; p+=10)
{
  out.println(p);
}</pre>
```

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.

```
for(int x = 0; x < 100; x+=40)
11.
         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)</pre>
        rect(myst,0,myst,myst);
```

Name:	Date :	
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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);
}</pre>
```

- 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);
}</pre>
```

- 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);
}</pre>
```

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);</pre>
      {
             pushMatrix();
             rotate(theta);
             translate(40,0);
             ellipse(0,0,20,20);
             popMatrix();
      }
```