

Name \_\_\_\_\_ Period \_\_\_\_\_

**Skill 3.1 Exercise 1**

(a) On a single line of code declare double variables x, y, z.

(b) On a single line of code declare and initialize the int variables a, b, c.

**Skill 3.2 Exercise 1**

Indicate what is printed for each of the following

```
int x = 2;
int y = 3;
int z = x + y;
x = x + z;
System.out.println(x+1);
```

```
int x = 1;
int y = 5;
int z = x - y;
x = x - z;
System.out.println(x-1);
```

```
int x = 2;
int y = 3;
int z = x * y;
x = x * z;
System.out.println(x*2);
```

```
int x = 9;
int y = 3;
int z = x/y;
x = x/z;
System.out.println(x/3);
```

```
int x = 11;
int y = 3;
int z = x%y;
x = x%z;
System.out.println(x%2);
```

**Skill 3.3 Exercise 1**

Indicate what is printed for each of the following

```
int x = 1;
x = x + 3;
System.out.println(x++);
System.out.println(++x);
```

```
int y = 10;
y = y - 3;
System.out.println(y++);
System.out.println(++y);
```

AP Computer Science A  
Ticket Out the Door  
Set 3: Numerical Operations

Name \_\_\_\_\_ Period \_\_\_\_\_

<b>Skill 3.4 Exercise 1</b>	
Indicate what is printed for each of the following	
<pre>int x = 1; x += 8; System.out.println(x++); System.out.println(++x);</pre>	
<pre>int y = 11; int d = 2; y -= 3+d; System.out.println(y++); System.out.println(++y);</pre>	
<pre>int z = 3; int i = 2; z *= 5+i; System.out.println(z++); System.out.println(z--);</pre>	
<pre>int w = 15; int y = 1; w /= 3+y; System.out.println(++w); System.out.println(--w);</pre>	
<pre>int z = 15; int y = 1; z %= 3+y; System.out.println(++z); System.out.println(z--);</pre>	

<b>Skill 3.5 Exercise 1</b>	
Indicate what is printed for each of the following	
<pre>System.out.println(79 + 3 * (4 + 82 - 68) - 7 + 19);</pre>	
<pre>System.out.println((179 + 21 + 10)/7 + 181);</pre>	
<pre>int p = 40; int q = 4; System.out.println(2 + 8 * q/2 - p);</pre>	