

Name _____ Period _____

Skill 23.01 Exercise 1

Indicate what is printed for each of the following

```
var x = 2;
var y = 3;
var z = x + y;
x = x + z;
console.log(x+1);
```

```
var x = 1;
var y = 5;
var z = x - y;
x = x - z;
console.log(x-1);
```

```
var x = 2;
var y = 3;
var z = x * y;
x = x * z;
console.log(x*2);
```

```
var x = 9;
var y = 3;
var z = x/y;
x = x/z;
console.log(x/3);
```

```
var x = 11;
var y = 3;
var z = x%y;
x = x%z;
console.log(x%2);
```

Skill 23.02 Exercise 1

Indicate what is printed for each of the following

```
var x = 1;
x = x + 3;
console.log(x++);
console.log(++x);
```

```
var y = 10;
y = y - 3;
console.log(y--);
console.log(--y);
```

Skill 23.03 Exercise 1

Indicate what is printed for each of the following

<pre>var x = 1; x += 8; console.log(x++); console.log(++x);</pre>	
<pre>var y = 11; var d = 2; y -= 3+d; console.log(y++); console.log(++y);</pre>	
<pre>var z = 3; var i = 2; z *= 5+i; console.log(z++); console.log(z--);</pre>	
<pre>var w = 15; var y = 1; w /= 3+y; console.log(++w); console.log(--w);</pre>	
<pre>var z = 15; var y = 1; z %= 3+y; console.log(++z); console.log(z--);</pre>	

Skill 23.04 Exercise 1

Indicate what is printed for each of the following.

(a) Write code that will take the square root of a variable x and store the result in y

(b) Write code that will generate a random number from 0 up to 1.

(c) Indicate what is printed

(i) `console.log(Math.ceil(-157.2));`(ii) `console.log(Math.floor(-157.2));`(iii) `console.log(Math.ceil(157.2));`

(iv) `console.log(Math.floor(157.2));`

(v) `console.log(Math.round(-157.2));`

(vi) `console.log(Math.min(-157.7, 157.7));`

(vii) `cconsole.log(Math.min(-157.7, 157.7));`

(viii) `console.log(Math.pow(2, 3));`

Skill 23.05 Exercise 1

Write code that could be used to create a random number within each of the specified ranges below

0 – 1
(1 not inclusive)

0 – 52
(52 is inclusive)

100 – 200
(200 is not inclusive)

-100 – 0;
(0 is inclusive)

-50 – 10;
(10 is not inclusive)