

Name _____ Period _____

Skill 4.1 Exercise 1	
Indicate what is printed for each of the following. If there is an “error”, indicate how you could fix it.	
<code>int cnt = 27.2; System.out.println(cnt);</code>	
<code>int cnt = 27.9; System.out.println(cnt)</code>	
<code>double d = 5; System.out.println(d);</code>	
<code>int cnt = 101; double d = cnt; System.out.println(d)</code>	
<code>int cnt = 17.9; double d = cnt; System.out.println(d);</code>	

Skill 4.2 Exercise 1	
Indicate what is printed for each of the following. If there is an “error”, indicate how you could fix it.	
<code>int x = 10; int y = 7; System.out.println(y/x);</code>	
<code>int x = 10; int y = 7; System.out.println(x/y);</code>	
<code>double x = 10; int y = 7; System.out.println(y/x);</code>	
<code>int x = 10; int y = 3; double z = x/y; System.out.println(z);</code>	
<code>int x = 10; int y = 3; System.out.println((double)x/y);</code>	
<code>int x = 10; int y = 3; System.out.println((double)x%y);</code>	
<code>double x = 10.5 int y = 3; System.out.println(x%y);</code>	
<code>double x = 10; double y = 3; double z = 10/3; int i = z; System.out.println(z);</code>	
<code>int p = 3; double d = 10.3; int j = (int)5.9; System.out.println(p + p * (int)d - 3 * j);</code>	

AP Computer Science A
Ticket Out the Door
Set 4: Mixed Data Types

Name _____ Period _____

Skill 4.3 Exercise 1

Indicate what is printed for each of the following. If there is an “error” indicate how you could fix it.

```
int x = 0;
int y = 0;
System.out.println(x/y);
```

```
double x = 0;
double y = 0;
System.out.println(x/y);
```

```
int x = 100;
double y = 0;
System.out.println(x/y);
```

```
int x = -100;
double y = 0;
System.out.println(x/y);
```

Skill 4.4 Exercise 1

Write code that will create a constant variable AVOGADRO that is equal to 6.022×10^{23}

Indicate whether the following code is legal or illegal. If illegal indicate why.

```
final double p = 3.14;
int r = 5;
double c = 2 * p * r;
p = c;
```