Ch 1/2 Review

IP Comp. Sci. Chapter 1/2 Review   Name: _____

1. What would this print?

```
System.out.println("\"Television\"");
System.out.println("\"Wow\"" + 3 + 2);
System.out.println(2 + 3 + "Hey");
System.out.print("What");
System.out.println("\"Stop\"");
```

Escape Sequences

\\	\"
\n	\t

"Television"   (with the quotes)
"Wow"32
5 Hey
What "Stop"

2. Write ONE statement to print:

Hello
Hello
Hello

Syste.o.p ("Hello\n Hello\n Hello");

3. Write a statement to print:

Mind \ Matter

S.O.P ("Mind \\ Matter")

4. `int i = 1; j = 2;`

What would the result of these be?

(i + j) / 2
(1 + 2) / 2 → 3/2 → ①

(i + j) / 2.0
(1 + 2)/2.0
3/2.0 → 1.5

i + j / 2
1 + 2/2 = 1+1 = ②

(double)((i + j)/2)
(double)((1+2)/2)
(double)(3/2)
(double)(1) → 1.0

5. What would the result of these be?

6 + 3 * 6 % 6 − 2

6 + 8 % 6 − 2

6 + 0 − 2

6 − 2

4

5 % 3 * 4 − 6

2 * 4 − 6

8 − 6

2

* / %

+ −

6. What would the result of this be?

```
int x = 10;
int y = 3;
System.out.println(x / y + x % y);
```

(10 / 3) + (10 % 3) → (3) + (1) → (4)

7. String s = "Born in the USA";
0123456789012**34**

What would these result in?

s.substring(5,8);   s.indexOf("USA");

in _ (with the space)   12

s.substring(10);   s.length();

e USA

                                     15

s.substring(0,4);

Born

8. How would break down totalInches into a whole number of feet and a whole number of inches and set the following variables accordingly?

```
int totalInches = 100;
int feet = ???????;      100/12
int inches = ???????;    100%12
```

9. Write a snippet of code to compare these two strings. If they are the same, print "They are the same". Otherwise print "They are not the same"

```
String s1 = Keyboard.next();
String s2 = Keyboard.next();
```

if (s1. equals (s2)   )

if (s1. compareTo (s2) ==0)

[diagram: s1 → Hello]
[diagram: s2 → Hello]