## Short Circuit Worksheet

• Result: true or false?

• Short Circuit: yes or no?

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	Value		Short-Circuit		
	true	false	Yes	No	
5.					true    true    false
6.					false    false    false
7.					false    false    true
8.					true    true    true
9.					true && true && false

10.			false && false && false
11.			false && false && true
12.			true && true && true

13. What two lines of output will print when this code is run? NOTE: ++x will increment x by 1, THEN check if it equals 1

int 
$$x = 0$$
,  $y = 0$ ,  $z = 0$ ;  
System.out.println( ++x == 9 || ++y == 1 && ++z == 1 );  
System.out.println("x is " + x + ", y is " + y + ", z is " + z);

Output Line 1:

Output Line 2:

14. What two lines of output will print? This code will short circuit.

```
int x = 0, y = 0, z = 0;

System.out.println( ++x == 1 || ++y == 9 && ++z == 1 );

System.out.println("x is " + x + ", y is " + y + ", z is " + z);
```

Output Line 1:

Output Line 2:

15. What two lines of output will print? One part of this code will short circuit.

```
int x = 0, y = 0, z = 0;

System.out.println( ++x == 9 || ++y == 9 && ++z == 1 );

System.out.println("x is " + x + ", y is " + y + ", z is " + z);
```

Output Line 1:

Output Line 2: