Worksheet W.A.8.1
Name_____

if Statements

Find the output for the following code segments:

1.
```java
int a = 28;
int b = 47;
int c = 84;

if((a < 30) && (c >= 85))
   System.out.println("Hello");
else
   if ((b > 50) || (a > 25))
      System.out.println("Goodbye");
   else
      System.out.println("I can't make up my mind!");
```

2.
```java
boolean one, two, three;
one = true;
two = false;
three = true;

if (!one || two)
   System.out.println("Snow Boarding is great!");
else
   if (one && !three)
      System.out.println("I'd rather ski");
   else
      System.out.println("I prefer water sports");
```

3.
```java
int pocket = 5;
int bucksNeeded = 20;
boolean late = false;
String motto = "have fun!";
if (late && (pocket < bucksNeeded))
   System.out.println("Let's " + motto);
else
   System.out.println("It doesn't look like I'll "
      + motto);
```

4.
```
int gel = 6; // hours worth of gel in hair
int hours = 5; // hours you need gel to last
if (gel < hours)
    System.out.println("You need more gel.");
else
    System.out.println("Your spikes will last the party!");
```

5.   For questions 1-3 above, identify any lines of code that utilize short-circuit evaluation. Specify the question number and the exact line of code.