

II. Answer Yes or No: (1 pt each)

1) If the body of the **if** contains only a single statement then are braces required around the statement? (yes / no) 1) _____

2) Is the expression $!(x > 10)$ equivalent to the expression $x < 10$? (yes / no) 2) _____

III. Write a single Java **if-else** statement that outputs the value of character variable GRADE if GRADE is equal to 'A', or 'F' otherwise output the message "Input Error".
(3 pts each)

1) Use the *equal* relational operator in the **if** expression:

2) Redo the problem, but this time use the *not equal* relational operator in the **if** expression:

Chapter 4 Worksheet 2 if-else Statements

Name _____

1 of 2

Pts: 15

class hour _____

I. What is the output of the following poorly indented code fragments?

1) somenumber = 100;
 if (somenumber > 50)
 System.out.print("first ");
 System.out.print("second ");
 System.out.print("third");

1) _____

2) somenumber = 40;
 if (somenumber > 50)
 System.out.print("first ");
 System.out.print("second ");
 System.out.print("third");

2) _____

3) somenumber = 100;
 if (somenumber > 50)
 {
 System.out.print("first ");
 System.out.print("second ");
 }
 System.out.print("third");

3) _____

4) somenumber = 40;
 if (somenumber > 50)
 {
 System.out.print("first ");
 System.out.print("second ");
 }
 System.out.print("third");

4) _____

5) somenumber = 100;
 if (somenumber > 50)
 System.out.print("first ");
 else
 System.out.print("second ");
 System.out.print("third");

5) _____

6) somenumber = 40;
 if (somenumber > 50)
 System.out.print("first ");
 else
 System.out.print("second ");
 System.out.print("third");

6) _____

7) **if** ((5.2 > 3.3 && 6.2 < 9.9) && (6.2 < 3.5 || 4.2 == 3.1 || 3.1 != 3.14))
 System.out.print("TRUE");
 else
 System.out.print("FALSE");

7) _____

II. Do **back** of paper!

OVER