

Short Answer - Trace the following code segments. Assume all undeclared variables are initialized to zero. If an error would occur, explain it. If an infinite loop occurs, write "infinite loop".

1.

```
intNum = 1
While (intNum <= 3)
    intNum = intNum + 1
End While
```

intNum

2.

```
intNum = 5
intSum = 0
While (intSum < 20)
    intSum = intSum + intNum
    intNum = intNum + 4
End While
```

intNum intSum

3. Assume the user inputs the values 10, 5, 3, -1

```
intScore = 0
intTotal = 0
While (intScore <> -1)
    intScore = InputBox("Enter a score: ")
    If (intScore = -1)
        Exit While
    Else
        intTotal = intTotal + intScore
    End If
End While
```

intTotal intScore

Trace the following variables & fill in the output that appears in the labels. Write "error" if necessary.

```
Dim mintNums() As Integer = {13, 5, 8, 3}
Dim J As Integer = 0
Label4.Text = mintNums(1)
Label5.Text = mintNums(2) - mintNums(3)

Dim intTotal As Integer = 0
For J = 0 To 3
    intTotal = intTotal + mintNums(J)
Next
Label6.Text = intTotal

Dim intSum As Integer = 0
For J = 1 To mintNums.Length() - 1
    intSum += mintNums(J)
Next
Label7.Text = intSum
```

4. _____

5. _____

J intTotal

6. _____

J intSum

7. _____

Answer the following on the back of the paper

8. Write a code segment that uses a While loop to add up the integers from 13 to 19 inclusive storing the sum in a variable named intSum.

9. Write a code segment that uses a While loop to add all the integers typed by a user into an InputBox until the user inputs the number -1. Do not add the -1 to the running total. Be sure to declare any necessary variables.