Visual Basic   Name -
Tracing For Loops Worksheet #2   Period -

Trace the following code segments showing the values for each variable in the appropriate columns. Write "infinite loop" if the loop never ends. **Circle the final values stored in each variable.**

1.
```
Dim sum As Integer = 0

For J = 2 To 3
     sum = sum + 1
Next
```

sum	J
0	2

2.
```
Dim sum As Integer = 0

For J = 4 To 6
     sum += 1
Next
```

sum	J
0	4

3.
```
Dim sum As Integer = 0

For J = 2 To 8 Step 2
     sum += 1
Next
```

sum	J
0	2

4.
```
Dim sum As Integer = 0

For J = 10 To 8 Step -1
     sum += 1
Next
```

sum	J
0	10

5.
```
Dim sum As Integer = 80

For J = 3 To 1 Step -1
     sum /= 2
Next
```

sum	J
80	3

6.
```
Dim sum As Integer = 0

For J = 1 To 3
     sum += J     ' not sum += 1
Next
```

sum	J
0	1

7. What is the formula for determining counting the number of `For` loop iterations?

8.
```
For J = 11 To 21                          How many loop iterations?
     MessageBox.Show("Hello World")
Next
```

9.
```
For J = 99 to 105                         How many loop iterations?
     MessageBox.Show("Hello World")
Next
```