

```
// Java
// Tracing Static Methods Worksheet #1
```

Name -  
Period -

```
// Write the output in the spaces provided.
```

```
public class JavaTracingStaticMethods1
{
    public static void main(String[] args)
    {
        System.out.println(addFive(3));           // 1 _____
        System.out.println(addFiveVersion2(-4)); // 2 _____
        System.out.println(summation(4));        // 3 _____
        System.out.println(max(5, 8, -4));       // 4 _____
        System.out.println(summation(summation(3))); // 5 _____
        System.out.println(max(2, 3, 1) + max(-9, 17, 3)); // 6 _____
        System.out.println(max(1, 12, max(9, 3, 2))); // 7 _____
        System.out.println(factorial(4));        // 8 _____
        System.out.println(factorial(2 + 1));    // 9 _____
        System.out.println(max(factorial(2), summation(2), 0)); // 10 _____
    }
}
// *****
public static int factorial(int num)
{
    int j = 1;
    int product = 1;

    for (j = 1; j <= num; j++)
        product = product * j;

    return product;
}
// *****
public static int addFive(int num)
{
    return num + 5;
}
// *****
public static int addFiveVersion2(int num)
{
    int temp = 0;
    temp = num + 5;
    return temp;
}
// *****
public static int summation(int num)
{
    int j = 0;
    int sum = 0;

    for (j = 1; j <= num; j++)
        sum += j;

    return sum;
}
// *****
public static int max(int x, int y, int z)
{
    if (x >= y && x >= z)
        return x;
    else if (y >= x && y >= z)
        return y;

    return z;
}
}
```