

CSE 121 Section 2: Expressions Practice

Trace the evaluation of the following expressions, and give their resulting values. Make sure to answer with a value of the appropriate type (such as including a .0 at the end of a `double` or `""` around `Strings`).

1. `4 * 3 / 8 + 2.5 * 8`

2. `26 % 10 % 4 * 3`

3. `!(12 / 3 <= 10.0 % 2) && 5.0 % 2 == 1`

4. `41 % 7 * 3 / 5 + 5 / 2 * 2.5`

5. `8 - 5.0 * 2 + ("2" + 5)`

6. $2 * 3 / 4 * 2 / 4.0 + 4.5 - 1$

7. $(30 - 27) + 8 / 2 / 5 \% 3$

8. $(15 \% 5 == 3) \ || \ (! (5.0 - 4 == 1.0))$

9. Trace the following expressions, and find their resulting values. Enter the output exactly as it would be printed to the console.

```
public static void main(String[] args) {  
    System.out.println(8.0 * 2 + 4 % 3 + "CSE 121" + 5.0);  
    System.out.println(12 / (5.0 - 1) + 3 % 2 + "g");  
    System.out.println(46 / 3 / 2.0 / 3 * 4 / 5);  
    System.out.println(42 % 78 != 100 / 7);  
    System.out.println(!(!(0 == 27 % 3) || (10 / 3 < 10)));  
}
```

What is the output of the above program?