Self-Assessment Quiz

1. What datatype is the following variable:
   ```
   const number = 45;
   ```
   - **constant**
   - number
   - string
   - float

2. What datatype is the following variable:
   ```
   const number = "45";
   ```
   - constant
   - number
   - **string**
   - float

3. Which is generally the better representation?
   ```
   let value = undefined;
   let value = null;
   ```
   - 1
   - **2**

4. What is the console output of the following?
   ```
   let a = "Code and Compile";
   let b = `Hello ${a}`;
   console.log(b);
   ```
   - "Hello"
   - **"Hello Code and Compile"**
   - "Code and Compile"
   - HelloCode and Compile

5. What is the console output of the following?
   ```
   let a = 10;
   let b = 20;
   let c = "5";
   b++;
   console.log(a+b+c);
   ```
   - 31
   - 36
   - 5
   - **315**

6. What is the console output of the following?
   ```
   console.log(3 + 4 * 2/8);
   ```
   - **4**

- 1.75

7. What is the output of console for total?
```
let num1 = 5;
let num2 = 10;
num1++;
num2--;
let total = ++num1 + num2;
console.log(total);
let total2 = 400 + 100/5 + total--;
console.log(total2);
```

Answer: 16

8. What is the output of console for total2?
```
let num1 = 5;
let num2 = 10;
num1++;
num2--;
let total = ++num1 + num2;
console.log(total);
let total2 = 400 + 100/5 + total--;
console.log(total2);
```

Answer: 436

9. What will be the output of the console?
```
var a = 5;
var b = 10;
console.log(a > 0 && b < 20);
```
- **True**
- False

10. What will be the output of the console?
```
var a = 5;
var b = 10;
console.log(a == 5 && b === "10");
```
- True
- **False**

11. What will be the output of the console?
```
var a = 5;
var b = 10;
console.log(a == 3 || b == 10);
```
- **True**

- False

12. What will be the output of the console?
```javascript
var a = 5;
var b = 10;
console.log(a !== '5' && b == 10);
```
- **True**
- False