

JavaScript Coercion Assignment

Part 1: Multiple Choice Questions (MCQ)

Q1. What will `5 + '3'` return?

a) 8 b) "53" c) NaN d) undefined

Q2. What will `true + 1` return?

a) true1 b) NaN c) 2 d) "true1"

Q3. What is the result of `'10' - 2`?

a) 8 b) "8" c) NaN d) 102

Q4. What will `null + 1` return?

a) 1 b) null c) NaN d) "null1"

Q5. What is the type of the result of `Number("abc")`?

a) "number" b) "string" c) "undefined" d) "NaN"

Part 2: Predict the Output

Q6.

```
console.log(1 + true);
```

Q7.

```
console.log("4" * "2");
```

Q8.

```
console.log(undefined + 1);
```

Q9.

```
console.log("5" - true);
```

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Q10.

```
console.log(+");
```

Part 3: Fix the Code to Avoid Coercion Issues

Q11. Convert "42" to a number explicitly and add 8 to it.

Q12. Ensure '5' + 2 results in the number 7 instead of "52".

Q13. Make sure false is converted to a string before concatenation with " is false".

Part 4: Short Answer

Q14. Explain the difference between implicit and explicit coercion with an example.

Q15. Why does [] + {} result in "[object Object]" in JavaScript?

Answers

Part 1: MCQ

Q1: b) "53"

Q2: c) 2

Q3: a) 8

Q4: a) 1

Q5: a) "number"

Part 2: Output

Q6: 2

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Q7: 8

Q8: NaN

Q9: 4

Q10: 0

Part 3: Fix Code

Q11: `console.log(Number("42") + 8); // 50`

Q12: `console.log(Number('5') + 2); // 7`

Q13: `console.log(String(false) + " is false"); // "false is false"`

Part 4: Short Answers

Q14: Implicit coercion happens automatically: `"5" * 2 => 10;`

Explicit coercion is manual: `Number("5") => 5`

Q15: `[] + {} => "" + "[object Object]" => "[object Object]"`