

JavaScript Functions

function divide(numerator, denominator) {
 return numerator / denominator;
}

Given the function defined in the diagram, what would be logged to the console with the following code?

let answer = divide(10,2);
console.log(answer);

- **A** 0.2
- **✓ B** 5
 - **c** 8
 - **D** 20
 - E NaN
 - i In this case the division being performed is 10/2 since the numbers are evenly divisible, the result is a whole number, 5.

```
function divide(numerator, denominator) {
   return numerator / denominator;
}
```

Given the function defined in the diagram, what would be logged to the console with the following code?

let answer = divide(2,0);
console.log(answer);

- **A** 0.2
- **B** 5
- ✓ C Infinity
 - **D** 20
 - E NaN
 - **F** A division by 0 error message

- i JavaScript does not perform strict integer division. Division by 0 is only illegal when using strict integer division. In this scenario, JavaScript performs floating point division. The answer of dividing by 0 in floating point math is **infinity**.
- **3.** Parameters in JavaScript functions are always optional.
- ✓ **T** True
 - **F** False
 - i In JavaScript you can declare parameters, but they ARE NOT required. If a parameter is not passed to the function, the variable is **undefined**.

```
function add(first, second) {
    function add(first, second) {
    return first + second;
    }
}

let answer = add(15);
console.log(answer);
8
```

Given the code pictured, what value would be displayed on the console?

NaN

nan

NAN

i Since we did not provide an input for the **second** parameter, it is undefined.

15 + undefined = NaN

```
function divide(numerator, denominator) {
    let answer = numerator / denominator;
}

divide(15, 3);
console.log(answer);
```

Given the code pictured, which line of code will cause an error?

- A 2
- **B** 3
- **c** 6
- **✓ D** 7
 - E NONE the code will run without errors
 - **i** The variable **answer** is declared inside of the **divide()** function, and therefore is only *in scope* within that function.

Line 7 will throw an exception, because **answer** is not *in scope*, and does not exist at that point in the code.

```
function add(first = 0, second = 0) {
    return first + second;
}

let answer = add(15);
console.log(answer);
8
```

Given the code pictured, what value would be displayed on the console?

15

Since we did not provide an input for the **second** parameter, it is assigned a default value of **0**.

15 + 0 = 15

```
1
2 let answer;
3
4 function multiply(first = 1, second = 1) {
5     answer = first * second;
6 }
7
8 multiply(15);
9 console.log(answer);
10
```

Given the code pictured, which line of code will cause an error?

- **A** 2
- **B** 5
- **c** 8
- **D** 9
- ✓ E NONE the code will run without errors
 - i The variable **answer** is declared as a **global** variable this means that it is always *in scope*.
 - 8. Comments should:
 - A Explain what is happening, not why
- ✓ B Explain the purpose of the code, not what it does
 - **c** Contain swear words, and lots of 'em
 - **D** Explain all the decisions that led up to how this code was created

```
1  "use strict"
2  const answer = 0;
3
4  function multiply(first = 1, second = 1) {
5  | answer = first * second;
6  }
7
8  multiply(15);
9  console.log(answer);
10
```

Given the code pictured, which line of code will cause an error?

- **A** 2
- **✓ B** 5
 - **c** 8
 - **D** 9
 - **E** NONE the code will run without errors
 - **j** The variable **answer** is declared as a **constant**. Line 5 will throw an exception because the value of the constant **answer** cannot be changed.