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1.What will be the output of the following JavaScript?

1 / 1 pu

```
1
2  const a = 2;
3  const b = 4;
4  if(a == 2 && b == 8) {
5      console.log("Green");
6  } else {
7      console.log("Blue");
8  }
9
```

☐ Green

☒ Blue

☒ **Correcto**

That's correct! The AND operator requires both conditions to be true to result in a true value. Since b is equal to 4, the condition fails and the code inside the else statement will execute. Therefore, Blue will be output.

2.What will be the output of the following JavaScript?

1 / 1 pu

```
1
2  var x = 2;
3  x += 5;
4  console.log(x);
5
```

☐ 2

☐ 3

☐ 5

☒ 7

☒ **Correcto**

That's correct! The x variable is initially assigned the value 2. Then 5 is added to the variable and the result is stored in the variable.

Therefore, 7 is output by the code.

3.What is the data type of the x variable in the following code?

1 / 1 pu

```
1
2  var x = "Hello";
3
```

☐ Number

☐ BigInt

☒ String

☐ Boolean

☒ **Correcto**

That's correct! Text wrapped in double quotes represents a string data type.

4.What will the following JavaScript code output?

0 / 1 pu

```
1
2  var x = 10;
3
4  if(x > 10) {
5      console.log("Apple");
6  } else if(x > 5) {
7      console.log("Pear");
8  } else {
9      console.log("Orange");
10 }
11
```

☐ Apple

☐ Pear

☒ Orange

⊗ **Incorrecto**

Not quite. Revise the item *Working with Conditionals in Conditionals and Loops*.

5. What will the following JavaScript code output?

1 / 1 pu

```
1
2  var result = 0;
3
4  var i = 4;
5  while(i > 0) {
6      result += 2;
7      i--;
8  }
9
10 console.log(result);
11
```

☐ 0

☐ 2

☐ 4

☒ 8

✓ **Correcto**

That's correct! The loop will run 4 times and each time add 2 to the result variable. Therefore, 8 will be output.

6. When the following code runs, what will print out?

1 / 1 pu

```
1
2  try {
3      throw new Error();
4      console.log('Square');
5  } catch(err) {
6      console.log('Circle');
7  }
8
```

☐ Square

☒ Circle

✓ **Correcto**

That's correct! When the error is thrown, the catch block will execute and output Circle.

7. In the following JavaScript code snippet, what is missing for the code to return the value 15?

1 / 1 pu

```
1
2 function addTwo(a,b) {
3     return a
4 }
5 addTwo(5,10)
6
```

- ☐ b after a in the return statement
- ☒ • b after a in the return statement
- ☐ Attribute
- ☒ **Correcto**
Well done. The missing code is "+ b".

8. What is the output of the code below?

1 / 1 pu

```
1
2 var cat = {}
3 cat.sound = "meow"
4 var catSound = "purr"
5 console.log(cat.sound)
6
```

- ☒ meow
- ☐ purr
- ☐ {}
- ☐ catSound
- ☒ **Correcto**
Well done. Revise Module 2 Lesson 2 "CSS Basics".

9. What is the output of the code below?

1 / 1 pu

```
1  
2 var veggies = ['parsley', 'carrot']  
3 console.log(veggies[2])  
4
```

☒ undefined

☐ 2

☐ 1

☐ 3

☒ **Correcto**

Well done. Trying to output the third item in the veggies array, using the syntax `veggies[2]` will console log undefined because the veggies array has only 2 items, "parsley" and "carrot".

10. Which of the following HTML attributes is used to handle a click event?

1 / 1 punto

☒ onclick

☐ `addEventListener('click')`

☐ 'click'

☒ **Correcto**

Well done. The onclick HTML attribute is used to handle click events.

11. How do you create a new h2 element using JavaScript?

1 / 1 punto

☒ With `document.createElement('h2')`

☐ With `document.buildElement('h2')`

☐ With `document.addElement('h2')`

☒ **Correcto**

Well done. You create new elements on the document object using the `createElement` function.

12. What does this code do?

1 / 1 p

```
1
```

```
2 function addFive(val) {  
3   return val + 5;  
4 };  
5 module.exports = addFive;  
6
```

- ☒ It defines the addFive function and exports it as a Node module so that it can be used in other files.
- ☐ This syntax is invalid.
- ☐ It allows you to invoke the addFive function without the parentheses.
- ☒ **Correcto**
Well done. It's a way to export the addFive function as a module that can be used elsewhere.