Functions

Function declarations have the following parts:

- 1. Function name: this is the name you use when you call the function
- 2. Parameter(s): local variable(s), to be used in the function statements. Parameters take the values that are passed as arguments in the function call, so they make the function more flexible
- 3. Statements: the stuff we want our function to do
- 4. Return statement: This is optional. It specifies what (if any) value the function should return for use elsewhere.

Function calls have the following parts:

- 1. the name of the function
- 2. parentheses: by adding the parens, we call the function
- 3. argument(s): these go inside the parens. They're values we want to use in the function. Some functions don't take any parameters, so the parens might just be empty

```
//DECLARE a function without parameters
    function someFunction() {
        console.log('I wish I had parameters');
    }
    //CALL the function.
    someFunction();
    //we don't need arguments in the function call.
    //but that means the function always does the exact same thing.
12
    //DECLARE a function with parameters
    function multiply(num1, num2) {
        console.log(num1);
        return num1 * num2;
    }
17
18
    multiply(2, 3);
20
    //The values in the parentheses are the arguments for this function call.
21
    //When the function executes, num1 & num2 will take the values of these arguments.
22
25
26
    var result1 = multiply(2, 3);
27
    var result2 = multiply(4, 5);
    //now result1 = 6 - the return value of the first function call
29
    //and result2 = 20 - the return value of the second call
30
```