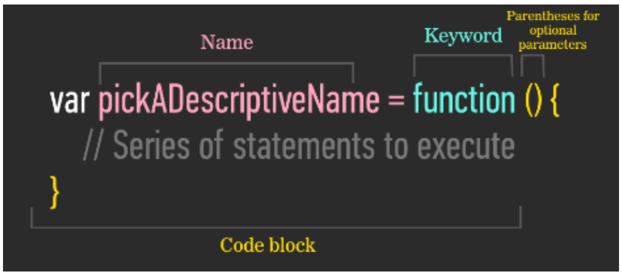
UNIT 3 REVIEW GUIDE

KEY TERMS & DEFINITIONS

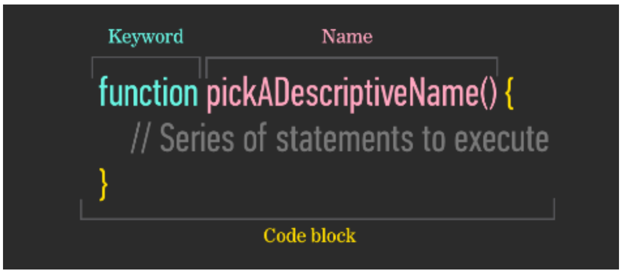
Function
A reusable relationship between a set of inputs and a set of outputs that can be called from anywhere in a program. A function can be declared using a function expression or a function declaration.

Function Expression (Anonymous Functions)
Defines a function by producing a value that’s stored in a variable.

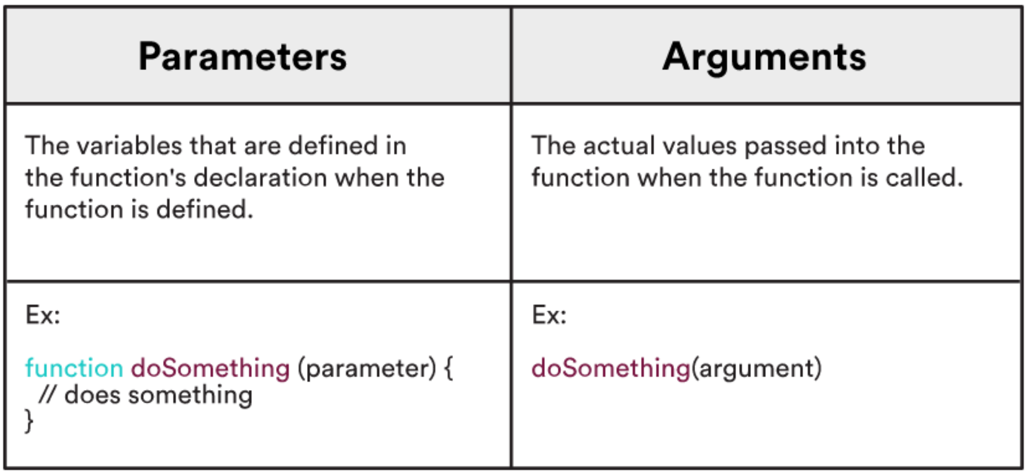


```
var pickADescriptiveName = function () {
  // Series of statements to execute
}
```

Function Declaration (Named Functions)
Are moved, or "hoisted," to the top of scope by the interpreter so you can call the function by name before defining it.



```
function pickADescriptiveName() {
    // Series of statements to execute
}
```



Parameters	Arguments
The variables that are defined in the function's declaration when the function is defined.	The actual values passed into the the function when the function is called.

Ex:
function doSomething (parameter) {
// does something
}
	Ex:
	doSomething(argument)

Return Statement
Stops the execution of a function and potentially returns a value from that function.

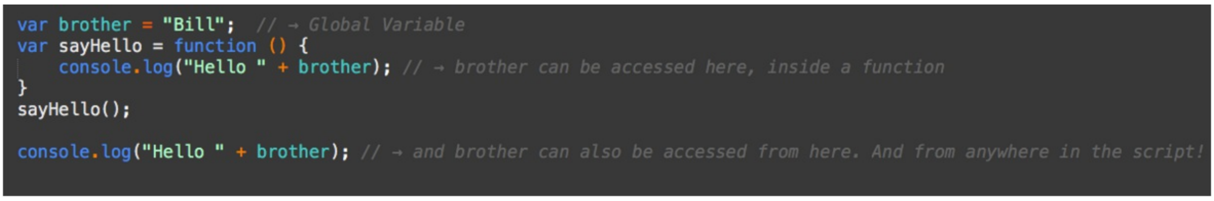
Hoisting
The moving of declarations to the top of the scope by the interpreter.

Scope
Refers to the location in the code where a variable is accessible.

Global Scope
The ability of a variable to be accessed by all scripts and functions on a web page.

Global Variable
A variable declared outside a function. A global variable has global scope.

In this code segment, "brother" is a *global variable* with *global scope*:



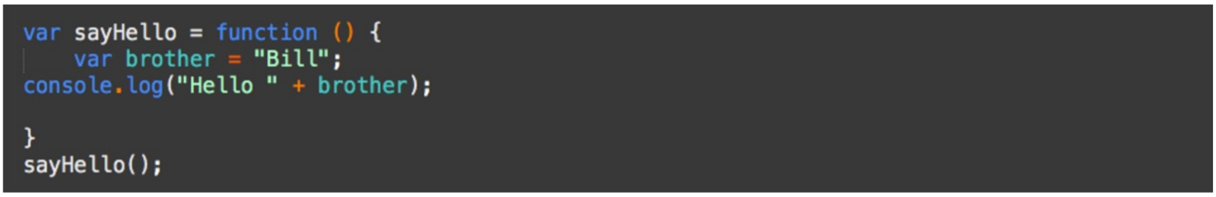
```
var brother = "Bill";  // → Global Variable
var sayHello = function () {
    console.log("Hello " + brother); // → brother can be accessed here, inside a function
}
sayHello();

console.log("Hello " + brother); // → and brother can also be accessed from here. And from anywhere in the script!
```

Local Scope
The inability of a variable to be accessed outside of the function in which it was declared.

Local Variable
A variable that cannot be called or utilized outside of the brackets in which it’s contained.

In this code segment, "brother" is a *local variable* with *local scope*:



```
var sayHello = function () {
    var brother = "Bill";
console.log("Hello " + brother);

}
sayHello();
```

GUIDING QUESTIONS

1. What is a function?
2. Why are functions useful?
3. What is the difference between a function declaration and a function expression?
4. What is the difference between parameters and arguments?
5. What is local scope?
6. What is global scope?

COMMAND LIST

Command	Description
return value;	Exit function and return value if there is one