

**Question 1: Explain the difference between the == operator and the === operator.**

The == operator allows type conversion. This means that when you compare "1" == 1, it will return true. With the === operator, this won't happen, it will return false.

**Question 2: Explain what a closure is. (Note that JavaScript programs use closures very often)**

A closure is a function within a function. This makes it possible for a function to have private variables. Example:

```
var add = (function () {  
    var counter = 0;  
    return function () {counter += 1; return counter}  
})();  
  
add();
```

Add becomes a function because the function that's called returns another function.

**Question 3: Explain what higher order functions are.**

Higher order functions are functions that take other functions as its argument or return them. An example of a higher order function is the function createTransform(domain, range) from this week's assignment.

**Question 4: Explain what a query selector is and give an example line of JavaScript that uses a query selector.**

A querySelector returns the first element that matches a CSS selector. In this example the method will return the first element that has class "myClass".

```
Var element = document.querySelector(".myClass")
```