

QUESTION 1 OF 3

What do you expect to be the output from running `getClothing(false)`?

```
function getClothing(isCold) {  
  if (isCold) {  
    var freezing = 'Grab a jacket!';  
  } else {  
    var hot = 'It's a shorts kind of day.';  
    console.log(freezing);  
  }  
}
```

☐ ReferenceError: freezing is not defined

☐ Grab a jacket!

☒ undefined

☐ It's a shorts kind of day.

It actually outputs `undefined`, weird right? Continue reading to learn more about this quirk of JavaScript.

QUESTION 2 OF 3

What do you expect to be the output from running `getClothing(false)`?

```
function getClothing(isCold) {  
  if (isCold) {  
    const freezing = 'Grab a jacket!';  
  } else {  
    const hot = 'It's a shorts kind of day.';  
    console.log(freezing);  
  }  
}
```

☒ `ReferenceError: freezing is not defined`

☐ `Grab a jacket!`

☐ `undefined`

☐ `It's a shorts kind of day.`

Because `freezing` is not declared inside the `else` statement, the function scope, or the global scope, a `ReferenceError` is thrown.

QUESTION 3 OF 3

What do you expect to be output from running the following code?

```
let instructor = 'James';  
instructor = 'Richard';  
console.log(instructor);
```

☐ James

☒ Richard

☐ undefined

☐ SyntaxError: Identifier 'instructor' has already been declared

This is the correct way to use `let`. Use `let` to declare variables when you plan on changing the value of a variable later in your code.

CONTINUE

Use cases

The big question is when should you use `let` and `const`? The general rule of thumb is as follows:

- use `let` when you plan to reassign new values to a variable, and
- use `const` when you don't plan on reassigning new values to a variable.

Since `const` is the strictest way to declare a variable, we suggest that you always declare variables with `const` because it'll make your code easier to reason about since you know the identifiers won't change throughout the lifetime of your program. If you find that you need to update a variable or change it, then go back and switch it from `const` to `let`.