

QUIZ

What does the following Go program print out?

```
func multiplyThree(x int, y int, z int) int {  
    return x * y * z  
}  
  
func main() {  
    var product int  
    product = multiplyThree(2, 2, 2)  
    fmt.Println(product)  
}
```

Error: **product** defined and not used.

8



Correct! $2 * 2 * 2 = 8!$

What would the following block of code print?

```
func returnsTwoThings(message string) (string, int) {  
    var newMessage string  
    var coolNumber int  
    coolNumber = 5  
    newMessage = "Surprise!" + message  
    return newMessage, coolNumber  
}  
  
func main() {  
    msg, num := returnsTwoThings("What's up?")  
    fmt.Println(msg, num)  
}
```

Error: coolNumber defined and not used.

Surprise! What's up? 5



Correct!

What key word is used to call a function after the current function finishes?

wait

async

defer



Correct! **defer** is used to defer a function call until after the current one closes.

What's printed out as a result of the following block of code?

```
package main
import "fmt"

func returnsTen() int {
    return 10
}

func main() {
    coolVariable := returnsTen()
    fmt.Println(coolVariable + 10)
}
```

Error, `coolVariable` defined and not used.

20



Correct! 10 + 10 is 20.

Which of the following use cases are good for functions?

When you're getting a lot of errors, functions will raise fewer errors.

When you need to store a variable but aren't sure if it should be `float32` or `int32`

When a similar pattern of code is used multiple times but with numbers or data tweaked slightly.



Correct! Functions are great for code reuse.

Which of the following defines a function in Go?

`func goFunction() { }`



Correct!

`var goFunction function`

`def goFunction:`

Why does the following block of code fail to compile?

```
package main
import "fmt"

func coolFunction() {
    var coolVariable := 5
}

func main() {
    coolFunction()
    fmt.Println(coolVariable)
}
```

`coolFunction()` defined and not used.

`coolVariable` is referenced outside of the scope it was defined in.



Correct! The error `coolVariable defined and not used`, doesn't fully explain what the misconception would be here.