

Computer Science I

CMPE/CSCI 1370 - 04

<http://bit.ly/1370abcde>

```
(define (triple value)
  (* 3 value))

(triple (triple 4))
```

A. number

B. function

C. 12

D. 24

E. 36

Write a function!

- split the bill
- greeter
- how many pizzas

Design recipe

1. Data definitions
2. Signature, purpose, stub
3. Examples
4. Template
5. Function definition
6. Test and debug

Demo: Full speed

add1

Demo: Step-by-step

`tall?`

Design recipe

1. Data definitions
2. Signature, purpose, stub
3. Examples
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Data definitions

- convert temperature from F to C
- check if a password is meets requirements
- convert a photo to black and white

What's a correct signature for a function that accepts a number, a string, and an image, and produces an image?

A. `; Number String Image <- Image`

B. `; Image -> Number String Image`

C. `; Number String Image -> Image`

D. `; Image Number String Image`

E. None of the above

How should this check-expect expression be ENDED, to result in a PASSING test?

```
(check-expect  
  (image-height (square 10 "solid" "purple"))
```

A. 20)

B. 10)

C. #true)

D. number)

E. image)

Demo

first-world-problems

~~Write~~ Design a function!

- split the bill
- greeter
- how many pizzas

Attendance!

<http://bit.ly/1370-4rollcall>