The Design Recipe

Directions: Write a function `split-tab` that takes in a cost and the number of people sharing the bill and splits the cost equally.

Contract and Purpose Statement

Every contract has three parts…

```
; split-tab : Number Number -> Number
```

function name | *domain* | *range*

```
; Takes in a cost and a number of people and divides the cost by the number of people, returning the value.
```

what does the function do?

Examples

Write some examples, then circle and label what changes…

```
(EXAMPLE (split-tab 200 10) (/ 200 10))
(EXAMPLE (split-tab 500 5) (/ 500 5))
```

function name | *input(s)* | *what the function produces*

Definition

Write the definition, giving variable names to all your input values…

```
(define (split-tab cost people)
  (/ cost people))
```

function name | *variable(s)* | *what the function does with those variable(s)*

Directions: Write a function `num-cube` that takes in a number and returns the cube of that number.

Contract and Purpose Statement

Every contract has three parts…

```
; num-cube : Number -> Number
```

function name | *domain* | *range*

```
; Takes in a number, cubes it and returns that value.
```

what does the function do?

Examples

Write some examples, then circle and label what changes…

```
(EXAMPLE (num-cube 1) (* 1 (* 1 1)))
(EXAMPLE (num-cube 3) (* 3 (* 3 3)))
```

function name | *input(s)* | *what the function produces*

Definition

Write the definition, giving variable names to all your input values…

```
(define (num-cube n)
  (* n (* n n)))
```

function name | *variable(s)* | *what the function does with those variable(s)*