

## DESIGN RECIPE

**Word Problem: rocket-height**

A rocket blasts off, traveling at 7 meters per second. Write a function called “rocket-height” that takes in the number of seconds that have passed since the rocket took off, and which produces the height of the rocket at that time.

## I. Contract+Purpose Statement

Every contract has three parts:

$$; \text{--- name ---} : \text{--- Domain ---} \rightarrow \text{--- Range ---}$$

What does the function do?

## II. Give Examples

On the computer, write an example of your function in action, using **EXAMPLE**.

(EXAMPLE ( \_\_\_\_\_ )  
the user types...

.....which should become

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### III. Definition

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

```
(define (_____))
```

function name                      variable names

.....and the computer does this