# Design Recipe

A rocket is traveling from Earth to Mars at 80 miles per second. Write a function that describes the **_time_** the rocket has been traveling, as a function of **_distance_**.

## I.  Contract+Purpose Statement

Every contract has three parts:

; ____**time**____ : ____**Number**____ -> ____**Number**____

      name              Domain            Range

; ____Given the distance, produce the time-traveled if it moves at 80mi/sec____

*What does the function do?*

## II.  Give ExamplesGive Examples

Write an example of your function for <u>some sample inputs</u>

**time(0)  = 0/80**

Use the function here             What should the function produce?

**time(10)  = 10/80**

Use the function here             What should the function produce?

**time(80)  = 80/80**

Use the function here             What should the function produce?

**time(190)  = 190/80**

Use the function here             What should the function produce?

## III.  Definition

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

**time(distance)        =        distance/80**