

## Design Recipe

**Word Problem**

A rocket is flying from Earth to Mars at 80 miles per second. Write a function that describes the distance  $D$  that the rocket has traveled, as a function of time  $t$

## I. Contract+Purpose Statement

Every contract has three parts:

$$; \underline{\text{D}} : \underline{\hspace{10em}} \rightarrow \underline{\hspace{10em}}$$

name                          Domain                          Range

## II. Give Examples

Write an example of your function for some sample inputs

$D(1)$	=	
Use the function here		What should the function produce?

D(2) =                      Use the function here                      What should the function produce?

D( )	=
Use the function here	What should the function produce?

	=
Use the function here	What should the function produce?

### III. Definition

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

$$D(\quad) =$$