Word Problem: rocket-distance

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

Contract and Purpose Statement □

Every contract has three parts...

```
rocket-distance ::          Number          ->      Number
```
    function name   *domain*   *range*

```
# Given  a  number  of  seconds,  produces  the  distance  traveled  by  a  rocket
```
what does the function do?

Examples □

Write some examples, then circle and label what changes...

examples:

```
rocket-distance (        0        ) is    80  *  0
```
   function name   *input(s)*   *what the function produces*

```
rocket-distance (        1        ) is    80  *  1
```
   function name   *input(s)*   *what the function produces*

```
rocket-distance (        14       ) is    80  *  14
```
   function name   *input(s)*   *what the function produces*

```
rocket-distance (        100      ) is    80  *  100
```
   function name   *input(s)*   *what the function produces*

end

Definition □

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

```
fun rocket-distance (      time       ):
```
    function name   *variables*

```
    80  *  time
```
what the function does with those variables

end