Check for Mistakes in this Word Problem: circle-area

**Directions:** Write a function that returns the area of a circle given its diameter.

### Contract and Purpose Statement

Every contract has three parts...

<table>
<thead>
<tr>
<th>circle-area</th>
<th>number</th>
<th>→</th>
<th>number</th>
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; Takes the diameter of a circle and calculates the area by multiplying .

### Examples

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

(EXAMPLE( circle-area 10 ) (* (sqr (/ 10 2)) pi))

(EXAMPLE( circle-area 50 ) (* (sqr (/ 50 2)) pi))

### Definition

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

(define( area diameter )

    (* (sqr diameter) pi))

what the function does with those variables