

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...

<code>circle-area</code>	<code>number</code>	\rightarrow	<code>number</code>
function name	domain		range

```
; 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) )
```

function name	input(s)	what the function produces
CYMBR/ circle-area	50 1 * (max (/ 50 2)) pi()	

Definition

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

```
(define( area diameter )
```

what the function does with those variables