

## 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...

;

circle-area: number → number

;

Takes the diameter of a circle and calculates the area by multiplying the square of the radius by pi.

Examples

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

(EXAMPLE (

circle-area10 )(\* (sqr (/ 10 2)) pi)

(EXAMPLE (

circle-area50 )(\* (sqr (/ 50 2)) pi)

Definition

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

(define (

area diameter )(\* (sqr diameter) pi))