

# Word Problem: onscreen?

**Directions :** Use the Design Recipe to write a function `onscreen?` , which takes in an x-coordinate and checks to see if Sam is safe on the left while also being safe on the right.

## Contract and Purpose Statement

Every contract has three parts...

; onscreen? : Number -> Boolean  
*function name* *domain* *range*

; Consumes an x-coordinate and produces true if Sam is on the screen

*what does the function do?*

## Examples

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

(EXAMPLE (onscreen? 100) (and (safe-left? 100) (safe-right? 100)))  
*function name* *input(s)* *what the function produces*  
(EXAMPLE (onscreen? -180) (and (safe-left? -180) (safe-right? -180)))  
*function name* *input(s)* *what the function produces*

## Definition

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

(define (onscreen? x)  
*function name* *variable(s)*  
(and (safe-left? x) (safe-right? x)))  
*what the function does with those variable(s)*