Danger and Target Movement

 $\label{lem:decomposition} \textbf{Directions:} \ \textbf{Use} \ the \ \textbf{Design} \ \textbf{Recipe} \ to \ write \ a \ function \ \ \texttt{update-danger} \ \textbf{,} \ \textbf{which} \ takes \ in \ the \ danger's \ \textbf{x-coordinate} \ and \ produces \ the \ next \ \textbf{x-coordinate}.$

. . . ID

Every contract has three parts		
# update-danger::	Number	-> Number
function name	domain	range
# Consumes an x-coordinate and return	ns a new x-coordinate	
	what does the function do?	
Examples		
Write some examples, then circle and label what ch	anges	
examples:		
update-danger (160) is <u>160 - 50</u>	
function name input(s)		the function produces
update-danger () is <u>-85 - 50</u>	
function name input(s) end	what .	the function produces
ena		
Definition		
Write the definition, giving variable names to all you	ur input values	
fun update-danger(x):	
function name variable(s)		
x - 50		
_	what the function does with those variable(s)	
end		
	te a function update-target, which tak	es in the danger's x-coordinate and
produces the next x-coordinate. Contract and Purpose Statement	te a function update-target, which tak	es in the danger's x-coordinate and
produces the next x-coordinate.	te a function update-target, which tak	es in the danger's x-coordinate and
produces the next x-coordinate. Contract and Purpose Statement	teafunction update-target, which take	es in the danger's x-coordinate and -> Number
Contract and Purpose Statement Every contract has three parts # update-target:: function name	Number domain	
produces the next x-coordinate. Contract and Purpose Statement Every contract has three parts update-target::	Number domain	->Number
Contract and Purpose Statement Every contract has three parts # update-target:: function name # Consumes an x-coordinate and return	Number domain	->Number
Contract and Purpose Statement Every contract has three parts # update-target:: function name	Number domain ns a new x-coordinate	->Number
Contract and Purpose Statement Every contract has three parts # update-target:: function name # Consumes an x-coordinate and return	Number domain ns a new x-coordinate what does the function do?	->Number
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Contract and Purpose Statement Every contract has three parts # update-target:: function name # Consumes an x-coordinate and return Examples Write some examples, then circle and label what cheexamples:	Number domain ns a new x-coordinate what does the function do? anges) is 130 + 50	->Number
Contract and Purpose Statement Every contract has three parts # update-target:: function name # Consumes an x-coordinate and return Examples Write some examples, then circle and label what cheexamples: update-target (130	Number domain ns a new x-coordinate what does the function do? anges) is 130 + 50	-> Number range
Contract and Purpose Statement Every contract has three parts # update-target:: function name # Consumes an x-coordinate and return Examples Write some examples, then circle and label what cheexamples: update-target (130 input(s)	Number domain ns a new x-coordinate what does the function do? anges) is 130 + 50 what) is -25 + 50	-> Number range
Contract and Purpose Statement Every contract has three parts # update-target:: function name # Consumes an x-coordinate and return Examples Write some examples, then circle and label what cheexamples: update-target (130	Number domain ns a new x-coordinate what does the function do? anges) is 130 + 50 what) is -25 + 50	-> Number range
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Contract and Purpose Statement Every contract has three parts # update-target:: function name # Consumes an x-coordinate and return Examples Write some examples, then circle and label what che examples: update-target (130 function name input(s) update-target (-25 function name input(s) Purpose end Definition Write the definition, giving variable names to all you	Number domain Ins a new x-coordinate what does the function do? anges) is 130 + 50 what) is -25 + 50	-> Number range
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Contract and Purpose Statement Every contract has three parts # update-target::	Number domain Ins a new x-coordinate what does the function do? anges) is 130 + 50 what) is -25 + 50 what ur input values	-> Number range
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