

Check for Mistakes in this Word Problem: turkey-price

Directions: The grocery store charges \$2/pound for a turkey for the first 5 pounds, and then \$1/pound for every pound after that. Write a function that takes in the weight of a turkey and returns how much it will cost.

Contract and Purpose Statement

Every contract has three parts ...

Diagram illustrating a function signature and its body:

Signature: `turkey-price` (function name) : `weight` (domain) → `number` (range)

Body: `Return the price of the turkey.` (what does the function do?)

Examples

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

(EXAMPLE(turkey-price	3)	(* 2 3))
	<i>function name</i>	<i>input(s)</i>		<i>what the function produces</i>	
(EXAMPLE(turkey-price	6)	(+ 10 (* 1 (- 6 5))))
	<i>function name</i>	<i>input(s)</i>		<i>what the function produces</i>	

Definition

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

```
(define( turkey-price weight )
  function name      variables

  (cond
    [(< weight 5)      (* 2 weight)]

    [else               (+ 10 (* 1 (- weight 5))) ]))
```