

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:

`; turkey-price : weight → number`

Labels below the signature:

- `turkey-price`: function name
- `weight`: domain
- `number`: range

Below the signature, a comment is shown:

`; Return the price of the turkey.`

Label below the comment:

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))) ]))
```