

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...

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

; 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) )
          function name      input(s)      what the function produces

(EXAMPLE ( turkey-price      6      ) (+ 10 (* 1 (- 6 5))) )
          function name      input(s)      what the function produces
```

Definition

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

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

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

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