

Name:

Date:

Unit 7: Warmup

Luigi has hired you to improve some code he uses at his pizza place. On your computers, you should have a program open that contains the code:

```
; cost : String -> Number
; given a Topping, produce the cost of a pizza with that topping
(define (cost topping)
  (cond
    [(string=? topping "cheese")      9.00]
    [(string=? topping "pepperoni") 10.50]
    [(string=? topping "chicken")    11.25]
    [(string=? topping "broccoli")   10.25]
    [else 20.00]))
```

Luigi's code has some new tricks that you've never seen before, so let's experiment a bit to figure out how it works! Click "Run", and try using the function in the Interactions window, then answer the questions below.

1. What does `(cost "cheese")` evaluate to? _____ `(cost "chicken")`? _____

2. What if you ask for `(cost "sausage")`? _____

3. Explain what the function is doing

4. What is the Name of this function? _____

5. Its Domain? _____ Range? _____

6. What is the name of its variable? _____

7. Luigi says Pepperoni has gone up to \$11. Change his function to reflect this.

8. Add an "eggplant" topping to Luigi's menu, for \$11.99.

9. Try adding toppings of your own. What's your favorite?

10. Luigi wants to charge a fixed price of \$20.00 for a custom topping that is not on the menu. Change the function accordingly.