Solving Word Problems with the Design Recipe

Use The Design Recipe to create models for the word problems and write the appropriate functions.

1) Write a function `globo-gym` that takes in a number of months and produces the cost for attending the gym that many months when there is a $150 initiation fee and a monthly fee of $45/month.
```
(define (globo-gym months) (+ (* 45 months)
150))
```

2) Write a function `rect-perimeter` that takes in the length and width of a rectangle and returns the perimeter of that rectangle.
```
(define (rect-perimeter l w) (* 2 (+ l w)))
```

3) Write a function `lawn-area` that takes in a length and width of a lawn and returns the area of that rectangular lawn.
```
(define (lawn-area length width) (* length
width))
```

4) Write a function `rectprism-vol` that takes in the length, width, and height of a rectangular prism and returns the Volume of a rectangular prism.
```
(define (rectprism-vol l w h) (* (* l w)
h))
```

5) Write a function `rideshare`, that takes in a number of miles and produces the cost of a ride for that many miles at $2.50 plus $1.50/mile.
```
(define (rideshare miles) (+ (* 1.5 miles)
2.5))
```

6) Write a function `marquee` that takes in a message and returns that message in large gold letters.
```
(define (marquee message) (text message 100
"gold"))
```

7) Write a function `split-tab` that takes in a cost and the number of people sharing the bill and splits the cost equally.
```
(define (split-tab cost people) (/ cost
people))
```

8) Write a function `num-cube` that takes in a number and returns the cube of that number.
```
(define (num-cube n) (* (* n n) n))
```

9) Write a function `circle-area` that takes in a radius and returns the area of the circle.
```
(define (circle-area radius) (* 3.14 (sqr
radius)))
```

10) Write a function `tip-calculator` that takes in the cost of a meal and returns the 15% tip of that meal.
```
(define (tip-calculator cost) (* 0.15
cost))
```

11) Write a function `minimum-wage`, that takes in a number of hours worked and returns the amount a worker will get paid at $10.25/hr.
```
(define (minimum-wage hours) (* 10.25
hours))
```

12) Write a function `moving` that takes in the days and number of miles driven and returns the cost of renting a truck. The truck is $55 per day and each driven mile is 15¢.
```
(define (moving days mi) (+ (* 55 days) (*
0.15 mi)))
```