Contracts

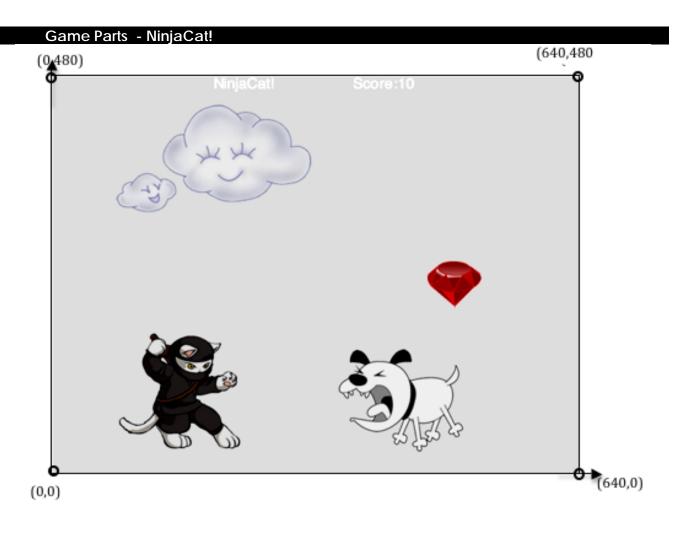
| Name | Domain | Range | example |
|------|--------|----------|---------|
| •• | • | ↑ | |
| • | • | ↑ | |
| ; | • | ↑ | |
| •• | : | ↑ | |
| •• | • | ↑ | |
| • | • | ↑ | |
| •• | • | ↑ | |
| • | : | ↑ | |
| •• | • | ^ | |
| •• | | ↑ | |
| •• | : | ↑ | |
| •• | : | ↑ | |
| ., | | ↑ | |
| •• | | ↑ | |
| •• | | ↑ | |
| •• | : | ↑ | |
| •• | | ↑ | |

Contracts

| Name | Domain | Range | example |
|------|--------|----------|---------|
| •• | : | → | |
| •• | : | + | |
| •• | : | → | |
| • | : | → | |
| •• | : | → | |
| •• | : | → | |
| • | : | → | |
| •6 | • | → | |
| ; | : | ↑ | |
| • | : | → | |
| • | : | → | |
| •6 | • | → | |
| •• | : | ↑ | |
| •• | | ↑ | |

Reverse-Engineering: How does NinjaCat work?

| Thing in the game | What changes about it? | More specifically |
|-------------------|------------------------|-------------------|
| cat | Position | x, y |
| ruby | position | × |
| clouds | position | × |
| dog | position | × |
| score | value | |
| background | nothing | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |



The background is a picture of: **SUNSET**

The coordinates for the PLAYER (NinjaCat) are: (150, 50)

x-coordinate y-coordinate

The coordinates for the DANGER (Dog) are: (450, 50)

The coordinates for the TARGET (Ruby) are: (550, 250)

Our Videogame

| Created by (write your names):Jessica and James |
|---|
| Background |
| Our game takes place:The Zoo(In space? The desert? A mall?) |
| The Player |
| The player is aLion |
| The player moves only up and down. |
| The Target Your player GAINS points when they hit the target. |
| The Target is aEscaped Gazelle |
| The Target moves only to the left and right. |
| The Danger Your player LOSES points when they hit the danger. |
| The Danger is aZookeeper |
| The Danger moves only to the left and right. |

Circle of Evaluation Practice!

Time: 5 minutes

Don't forget to use the computer's symbols for things like multiply and divide!

| Math | Circle of Evaluation | Racket Code |
|------------------------|----------------------|-------------|
| | | |
| | | |
| | | |
| 5 x 10 | | |
| | | |
| | | |
| | | |
| | | |
| 8 + (5 x 10) | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| (8 + 2) - (5 x 10) | | |
| (0 + 2) - (3 × 10) | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| <u>5 x 10</u> 8 - 2 | | |
| 8 - 2 | | |
| | | |
| | | |
| | | |

I. Lesson 2

(draw Circles of Evaluation here if you need extra scratch paper)

Circles Competition Time: 5 minutes Math Circle of Evaluation Racket Code (-(+12)(*37)) 1 2 (1 + 2) - (3 * 7) Round 2 (-3(+12))3 - (1 + 2) (-3(+1(*56)))3 5 3 - (1 + (5 * 6)) (-(+1(*56))3) 3 (1 + (5 * 6)) - 3

Fast Functions!

| 1 | | >image | |
|-------------------------|----------------|-----------------------------------|--|
| | domain 500) | (triangle 500 "solid" "green")) | |
| (EXAMPLE (_ gt _ | 7) | _(triangle 7 "solid" "green")) | |
| (define (_gt | size) | _(triangle size "solid" "green")) | |
| | | >image | |
| | | range(circle 25 "solid" "blue")) | |
| (EXAMPLE (_bc_ | 43) | _(circle 43 "solid" "blue")) | |
| (define (_ bc | size) | (circle size "solid" "blue")) | |
| ;double | :number_ | >number | |
| | domain | range | |
| | | | |
| (define (_double | num | _) (* 2 num)) | |
| ; | <u>:</u> | > | |
| name | domain | range | |
| (EXAMPLE (|) _ |) | |
| (EXAMPLE (|) |) | |
| (define (|) |) | |

| Fast Functions! Fill out two examples for each function body by yourself. | function, then try to write th | ne contract, Definition and | TRACER |
|---|--------------------------------|-----------------------------|--------|
| · | : | > | |
| name | domain | range | |
| (EXAMPLE (|) | |) |
| (EXAMPLE (|) | |) |
| (define (|) | |) |
| ; | : | > | |
| name | domain | range | |
| (EXAMPLE (|) | |) |
| (EXAMPLE (|) | |) |
| (define (|) | |) |
| • | _;; | -> | |
| (EXAMPLE (|) | |) |
| (EXAMPLE (|) | |) |
| (define (|) | |) |

(EXAMPLE (_

(EXAMPLE (_

(define (_

DESIGN RECIPE

Word Problem: rocket-height
A rocket blasts off, traveling at 7 meters per second. Write a function called "rocket-height" that takes in the number of seconds that have passed since the rocket took off, and which produces the height of the rocket at that time.

| II. Contract+Purpose Statement | |
|--|-----------------|
| Every contract has three parts: | |
| | |
| | |
| ; _rocket-height_: _number> _number_ | |
| name Domain Range | |
| ; Takes the number of seconds passed since take-off, and produce curr | ent height |
| What does the function do? | <u>om morgm</u> |
| III. Give Examples | |
| On the computer, write an example of your function in action, using EXAMPLE. | |
| | |
| EXAMPLE (_rocket-height O |) |
| the user types | |
| (* 7 O)) | |
| (* 7 0)) | |
| Willen should become | |
| | |
| | |
| EXAMPLE (_rocket-height 4 | _) |
| the user types | |
| | |
| (* 7 4)) | |
| which should become | |
| IV. Function | |
| Write the Definition, giving variable names to all your input values. | |
| (define (rocket-heighttime) | |
| (ucinic (i uckei-neigniinne) | |
| function name variable names | |

Word Problem: red-square

Use the Design Recipe to write a function <u>red-square</u>, which takes in a number (the size of the square) and outputs a solid red rectangle whose length and width are the same size.

| Every contract has three parts: | | |
|---|--|-----------------|
| ; _red-square | :number> _ Domain | _image Range |
| ;Draws a solid red | square of the size given What does the function do? | |
| II. Give Examples On the computer, write an exa | mple of your function in action, using | EXAMPLE |
| (EXAMPLE (<u>red-squa</u> | nre 5) he user says | |
| (rectangle 5 5 "soli | d" "red")) Racket replies | |
| • | re 6 |) |
| (rectangle 6 6 "soli | d" "red")) | |
| III. Definition Write the Definition, given | ving variable names to all your input v | alues. |
| (define (_red-square function name | Size variable names |) |
| (rectanale siz | ze size "solid" "red")) | |

Word Problem: yard-area
Use the Design Recipe to write a function yard-area, which takes in the width and length of a yard, and returns the area of the yard.

(Don't forget: area = length * width !)

| I. Contract+Purpose Statement Every contract has three parts: |
|---|
| ;yard-area :number number>number name Domain Range |
| ; Takes in length and width of a yard and gives back its area What does the function do? |
| II. Give Examples On the computer, write an example of your function in action, using EXAMPLE. |
| (EXAMPLE (yard-area 5 3) Use the function here |
| (* 5 3)) find another way to get the same result here |
| (EXAMPLE (yard-area 8 2) Use the function here (* 8 2)) find another way to get the same result here |
| III. Definition Write the Definition, giving variable names to all your input values. |
| (define (_yard-area length width) function name variable names |
| (* length width)) |

Word Problem: update-danger Use the Design Recipe to write a function <u>update-danger</u>, which takes in the danger's x-coordinate and produces the next x-coordinate, which is 50 pixels to the left.

| I. Contract+Purpose Statement Every contract has three parts: |
|---|
| y |
| ;update-danger: _number> _number name Domain Range |
| ;Takes in danger's current x-coordinate and adds 50 to it What does the function do? |
| II. Give Examples On the computer, write an example of your function in action, using EXAMPLE. |
| (EXAMPLE (update-danger 500) Use the function here |
| (- 500 50)) find another way to get the same result here |
| (EXAMPLE (_update-danger 140) Use the function here |
| (- 140 50)) find another way to get the same result here |
| III. Definition Write the Definition, giving variable names to all your input values. |
| (define (_update-dangerdangerX) function namevariable names |
| (- danaerX 50)) |

Design Recipe
Word Problem: update-target

Write a function $\underline{update-target}$, which takes in the target's x-coordinate and produces the next x-coordinate, which is 50 pixels to the right.

| I. Contract+Purpose Statement Every contract has three parts: |
|--|
| ;update-target_ :number>number name Domain Range |
| ; _Takes in the target's current x-coordinate and adds 50 to it_ What does the function do? |
| II. Give Examples On the computer, write an example of your function in action, using EXAMPLE. |
| (EXAMPLE (update-target 60) Use the function here |
| (+ 60 50)) find another way to get the same result here |
| (EXAMPLE (update-target 125) Use the function here |
| (+ 125 50)) find another way to get the same result here |
| III. Definition Write the Definition, giving variable names to all your input values. |
| (define (_update-targettargetX) function name variable names |
| (+ targetX 50)) |

Protecting Sam

Sam is in a 640 x 480 yard. How far he can go to the left and right before he's out of sight?

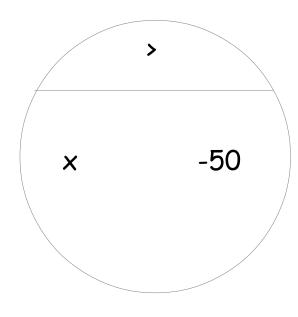
1. A piece of Sam is still visible on the left as long as...

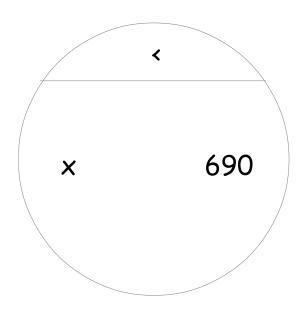
__(> x -50)___

2. A piece of Sam is still visible on the right as long as...

(< x 690)

3. Draw the Circle of Evaluation for these two expressions in the circles below:





Word Problem: safe-left?

Use the Design Recipe to write a function safe-left?, which takes an x-coordinate and checks to see if it is greater than -50.

| Contract+Purpose Statement very contract has three parts: |
|---|
| safe-left?:number>boolean_ name |
| _Takes in the x-coordinate and checks if it's greater than -50_ What does the function do? |
| . Give Examples n the computer, write an example of your function in action, using EXAMPLE. |
| EXAMPLE (safe-left? 20) Use the function here |
| (> 20 -50)) find another way to get the same result here |
| EXAMPLE (safe-left? -200) Use the function here |
| (> -200 -50)) find another way to get the same result here |
| Definition Write the Definition, giving variable names to all your input values. |
| define (safe-left?x) function name variable names |
| (> × -50)) |

Word Problem: safe-right?

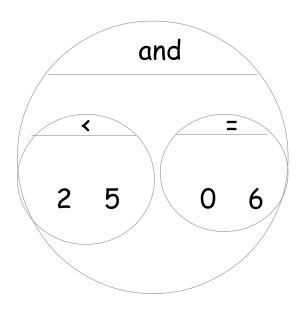
Use the Design Recipe to write a function <u>safe-right?</u>, which takes an x-coordinate and checks to see if it is less than 690.

| I. Contract+Purpose Statement |
|--|
| Every contract has three parts: |
| ;safe-right?:number>boolean name Domain Range |
| ;takes in the x-coordinate and checks if it is less than 690 What does the function do? |
| II. Give Examples On the computer, write an example of your function in action, using EXAMPLE. |
| (EXAMPLE (safe-right? 350) Use the function here |
| (< 350 690)) find another way to get the same result here |
| (EXAMPLE (safe-right? 900) Use the function here |
| (< 900 690)) find another way to get the same result here |
| III. Definition Write the Definition, giving variable names to all your input values. |
| (define (safe-right? x) function name variable names (< x 690)) |
| and the computer does this |

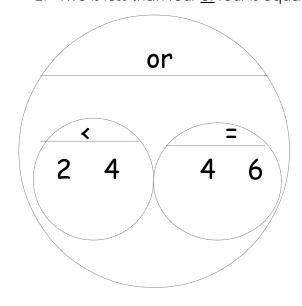
and / or

Write the Circles of Evaluation for these statements, and then convert them to Racket

1. Two is less than five, <u>and</u> zero is equal to six.



2. Two is less than four <u>or</u> four is equal to six.



Word Problem: onscreen?

Use the Design Recipe to write a function <u>onscreen?</u>, which takes in an x-coordinate and checks to see if Sam is safe on the left <u>and</u> safe on the right.

| I. Contract+Purpose Statement Every contract has three parts: |
|---|
| ;onscreen?:number>boolean name |
| ; _Takes in the x-coordinate and checks if target is protected on the /left and the right_ What does the function do? |
| II. Give Examples On the computer, write an example of your function in action, using EXAMPLE. |
| (EXAMPLE (onscreen? 900) Use the function here |
| (and (safe-left? 900) (safe-right? 900))) find another way to get the same result here |
| (EXAMPLE (onscreen? 355) Use the function here |
| (and (safe-left? 355) (safe-right? 355))) find another way to get the same result here |
| III. Definition Write the Definition, giving variable names to all your input values. |
| (define (onscreen?x) function name variable names |
| (and (safe-left? x) (safe-right? x))) |

Word Problem: cost

Luigi's Pizza has hired you as a programmer. They offer "pepperoni" (\$10.50), "cheese" (\$9.00), "chicken" (\$11.25) and "broccoli" (\$10.25). Write a function called cost which takes in the name of a topping and outputs the cost of a pizza with that topping.

| I. Contract+Purpose State Every contract has three parts: | ement | | |
|---|------------------|---------------|--------------------------------|
| ;cost : name | string Domain | > | _number Range |
| II. Give Examples On the computer, write an exar (EXAMPLE (cost "per Use the fund | pperoni") | 10.50_ | q, using EXAMPLE |
| (EXAMPLE (cost "chee | | 9.00_ Wha | t should the function produce? |
| (EXAMPLE (cost "chic | | 11.25_ Wha | t should the function produce? |
| (EXAMPLE (cost "bro | | 10.25_ Wha | t should the function produce? |
| III. Definition | | | |
| Write the Definition, giv (define (cost function name (cond | toppin | | alues. |
| [(string=? "pepp | peroni" topping) | 10.50] | |
| [(string=? "ched | ese" topping) | 9.00] | |
| [(string=? "chic | ken" topping) | 11.25] | |
| [(string=? "broo | ccoli" topping) | 10.25] | |
| [else | | 10000000 | (((1) |
| | | | |

Word Problem: update-player

Write a function called <u>update-player</u>, which takes in the player's y-coordinate and the name of the key pressed, and returns the new y-coordinate.

| I. Contract+Purpose Statement | |
|--|---|
| Every contract has three parts: | |
| ;update-player:number striiname Do | ng>number omain Range |
| On the computer, write an example of your function | for <u>each key</u> , using EXAMPLE. |
| (EXAMPLE (_update-player 40 "up" Use the function here | • |
| (EXAMPLE (update-player 400 "down"_ Use the function here | _)(- 400 20))_ What should the function produce? |
| III. Definition Write the Definition, giving variable names to | all your input values |
| write the belinition, giving variable names to | an your input values. |
| (define (_update-playerpl | layerY key_) variable names |
| (cond | |
| [(string=? "up" key) | (+ playerY 20)] |
| [(string=? "down" key) | (- playerY 20)] |
| [else | playerY])) |
| | |
| | |

Word Problem: line-length

Write a function called line-length, which takes in two numbers and returns the difference between them. It should always subtract the smaller number from the bigger one.

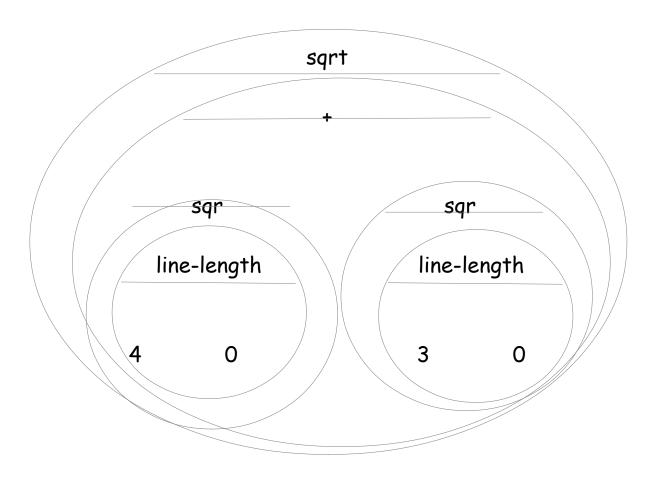
| | ract+Purpose Stateme ct has three parts: | ent | | | | | | |
|---------------------|---|----------------|----------|-------------|----------------------|---------------------|------------------------|----|
| ;line-le name | ength:n | umber numb | er Do | omain | > | numbe | er Range | |
| II. Give | Examples | | | | | | | |
| (EXAMPLE | (line-length Use the function | 10 5 n here | |) | <u>(</u> - What s | 10 should the fu | 5) Inction produce? | _) |
| (EXAMPLE | (line-length Use the function | | |) | <u>(</u> - What s | 8 should the fu | 2) unction produce? |) |
| III. Defin Write | ition the Definition, giving | variable nai | mes to | all vour ir | nput val | ues that c | hange. | |
| (define | (_line-length_ function name nd | | | J | | | | |
| [(| > a b) | | | (- a b) |] | | | |
| [e | else | | | (- b a) |])) | | | _ |
| _ | | | | | | | | _ |
| | | | | | | | | |

The Distance Formula, with Numbers

The distance between the points (0, 0) and (4, 3) is given by:

$$\sqrt{(line - length \ 4 \ 0)^2 + (line - length \ 3 \ 0)^2}$$

Convert the formula above into a Circle of Evaluation (We've already gotten you started!)



Convert the Circle of Evaluation into Racket code:

Word Problem: distance

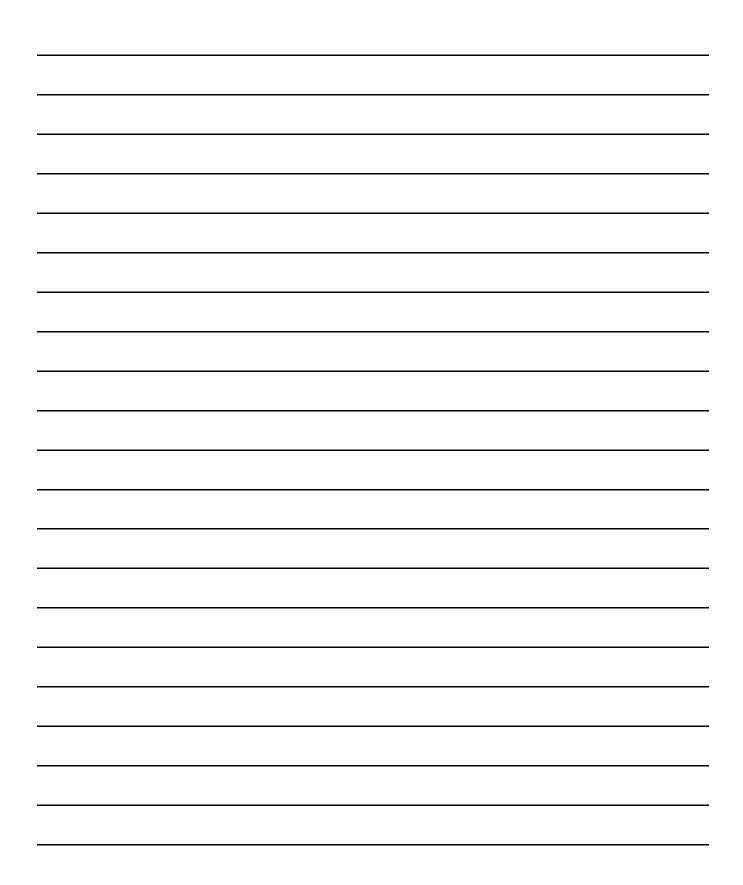
| Write a function distance, which takes FOUR inputs: px: The x-coordinate of the player py: The y-coordinate of the player cx: The x-coordinate of another game character cy: The y-coordinate of another game character |
|---|
| It should return the distance between the two, using the Distance formula: |
| $\Box \text{Distance} = \qquad ((\text{line-length px cx})^2 + (\text{line-length py cy})^2)$ |
| I. Contract+Purpose Statement |
| ;distance:number number number number>number name Domain Range |
| ;Takes in player x and player y , character x and character y , and gives distance between them_ What does the function do? |
| II. Give Examples |
| (EXAMPLE (distance 100 200 300 400) Use the function here |
| (sqrt (+ (sq (line-length 100 300)) (sq (line-length 200 400)))) find another way to get the same result here |
| (EXAMPLE (distance 300 200 400 500) Use the function here |
| (sqrt (+ (sq (line-length 300 400)) (sq (line-length 200 500))))_ find another way to get the same result here |
| III. Definition |
| (define (distance |
| (sqrt (+ (sq (line-length px cx) (sq (line-length py cy)))) |

DESIGN RECIPE

Word Problem: collide

Write a function collide?, which takes FOUR inputs:

| px: The x-coordinate of the player py: The y-coordinate of the player cx: The x-coordinate of another game character cy: The y-coordinate of another game character It should return true if the coordinates of the player are within 75 pixels of the coordinates of the other character. Otherwise, false. |
|--|
| I. Contract+Purpose Statement |
| ;collide? :number number number number> _true name |
| , _Takes player-x, player-y, character-x, character-y and returns true if characters are colliding What does the function do? |
| II. Give Examples |
| (EXAMPLE (collide? 100 200 300 400) Use the function here |
| (< (distance 100 200 300 400) 75)) find another way to get the same result here |
| (EXAMPLE (collide? 300 500 200 400) Use the function here |
| (< (distance 300 500 200 400) 75)) find another way to get the same result here |
| III. Definition |
| (define (_collide?px py cx cy) function name variable names (< (distance px py cx cy) 75)) |



Presentation Feedback

For each question, circle the answer that fits best.

Definitely! A little. Was the introduction catchy? No way! Did they talk about their characters? No way! A little. Definitely! Did they explain the code well? No way! A little. Definitely! No way! A little. Did they speak slowly enough? Definitely! Did they speak loudly enough? No way! Definitely! A little. Were they standing confidently? No way! A little. Definitely! Did they make eye contact? No way! A little. Definitely!

| Presentation Feedback For each question, circle the answer that fits best. | | | | |
|--|---------|-----------|-------------|--|
| Was the introduction catchy? | No way! | A little. | Definitely! | |
| Did they talk about their characters? | No way! | A little. | Definitely! | |
| Did they explain the code well? | No way! | A little. | Definitely! | |
| Did they speak slowly enough? | No way! | A little. | Definitely! | |
| Did they speak loudly enough? | No way! | A little. | Definitely! | |
| Were they standing confidently? | No way! | A little. | Definitely! | |
| Did they make eye contact? | No way! | A little. | Definitely! | |
| | | | | |

Word Problem: red-shape

Write a function called <u>red-shape</u>, which takes in the name of a shape ("circle", "triangle", "star" or "rectangle"), and draws that shape. All shapes should be solid and red, and can be whatever size you choose

| I. Contract+Purpose Statement | | | | | | |
|---|---|------------------|----------------------------|--|--|--|
| ;r | entract has three parts: ed-shape: ame | | > main | _i mage Range | | |
| On the c | II. Give Examples On the computer, write an example of your function for <u>each shape</u> , using EXAMPLE. The first one has already been done for you. | | | | | |
| (EXAM | PLE <u>(red-shape</u> Use the function | | | solid" "red")) the function produce? | | |
| (EXAM | PLE (<u>red-shape "tr</u> Use the function | | | D "solid" "red")) the function produce? | | |
| (EXAM | PLE (_red-shape "s Use the function | | (star 50 ": What should | solid" "red)) the function produce? | | |
| (EXAM | PLE (_red-shape "r Use the function | _ | | 90 "solid" "red")) the function produce? | | |
| | Definition | | | | | |
| Write the Definition, giving variable names to all your input values. (define (_red-shapeshape) function name variable names (cond | | | | | | |
| (st | tring=? "circle" sho | ipe) | (circle 50 "solid" | " "red") | | |
| (st | tring=? "triangle" s | shape) | (triangle 50 "sol | id" "red") | | |
| (string=? "star" shape) | | (star 50 "solid" | "red") | | | |
| (st | tring=? "square" sh | iape) | (rectangle 50 50 |) "solid" "red") | | |
| els | se | | (circle 50 "solid" | " "red") | | |

Translating into Algebra

| Values: Translate the Ra | acket Code into Algebra | | | |
|---|---|--|--|--|
| Racket Code | Algebra | | | |
| (define x 10) | x = 10 | | | |
| (define y (* x 2)) | y = x*2 | | | |
| (define z (+ x y)) | z = x + y | | | |
| (define age 14) | age = 14 | | | |
| (define months (* age 12)) | months = age * 12 | | | |
| (define days (* months 30)) | days = months * 30 | | | |
| (define hours (* days 24)) | hours = days * 24 | | | |
| (define minutes (* hours 60)) | minutes = hours * 60 | | | |
| Functions: Translate the Racket Code into Algebra | | | | |
| <pre>(define (double x) (* x 2))</pre> | double(x) = x*2 | | | |
| <pre>(define (area length width) (* length width))</pre> | area(length, width) = length * width | | | |
| <pre>(define (circle-area radius) (* pi (sq radius)))</pre> | circle-area(radius) = pi * radius² | | | |
| (define (distance x1 y1 x2 y2) (sqrt (+ (sq (- x1 x2)) | distance(x1, y1, x2, y2) = $\sqrt{(x1-x2)^2+(y1-y2)^2}$ | | | |

A rocket is flying from Earth to Mars at 80 miles per second. Write a function that describes the $\underline{\text{distance}}\ D$ that the rocket has traveled, as a function of $\underline{\text{time}}\ t$.

| I. Contract+Purp Every contract has the | | nt | | |
|--|---------------|---|----------------------------|--|
| ; <u>D</u> | _: | _seconds | > _ _miles Range | |
| II. Give Examples Write an example of your function for some sample inputs | | | | |
| D(1) Use the function here | | 80 * 1 What should the function produce? | | |
| D(2) Use the function here | | 80 * 2 What should the function produce? | | |
| D(3) | | 80 * 3 | | |
| Use the function here D(10) | | What should the function produce? 80 * 10 | | |
| Use the function here | | What should the function produce? | | |
| III. Definition Write the formula, give | ving variable | names to all your input values. | | |
| D(+) = 80 | 0 * † | | | |

A rocket is traveling from Earth to Mars at 80 miles per second. Write a function that describes the <u>time</u> the rocket has been traveling, as a function of <u>distance</u>.

| I. Contract+Purpose Statement Every contract has three parts: | | | | |
|---|---|---|-----------------|--|
| ;time | | >s Domain | econds Range | |
| II. Give Examp | | function for some sample inputs | | |
| time(1) | = | 1/80 | | |
| Use the function here time(0) | | What should the function produce? 0/80 | | |
| Use the function here | | What should the function produce? | | |
| time(3) Use the function here | = | What should the function produce? | | |
| time(10) Use the function here | = | 10/80 What should the function produce? | | |
| III. Definition Write the Formula, giving variable names to all your input values. | | | | |
| time(d) | = | d/80 | | |

A rocket leaves Earth, headed for Mars at 80 miles per second. **At the exact same time**, an asteroid leaves Mars traveling towards Earth, moving at 70 miles per second. If the distance from the Earth to Mars is 50,000,000 miles, how long will it take for them to meet?

| Contract+Pur | pose St | atement | |
|----------------------------------|-----------|---|---------|
| Every contract has t | hree pa | arts: | |
| | | | |
| ;collide | : | distance | -> time |
| name | | Domain | Range |
| | | | - |
| II. Give Example | | | |
| Write an example of | f your fu | unction for <u>some sample inputs</u> | |
| II: -I - (O) | | 0/150 | |
| collide(0) | = | 0/150 | |
| Use the function here | | What should the function produce? | |
| 11:4-(200) | | 200/150 | |
| collide(300) | = | 300/150 | |
| Use the function here | | What should the function produce? | |
| U: 1 (E000) | | 5000 // 50 | |
| <u>collide(5000)</u> | = | 5000/150 | |
| Use the function here | | What should the function produce? | |
| | | | |
| <u>collide(100000)</u> | = | 100000/150 | |
| Use the function here | | What should the function produce? | |
| | | | |
| III. Definition | | | |
| write the Formula, g | iiving va | ariable names to all your input values. | |
| | | 1 | |
| collide(d) | = | d /150 | |
| | | | |

| Contract+Purpose State | | | |
|--|-------------------------------------|-------|--|
| Every contract has three part | S: | | |
| | | -> | |
| name • | Domain | Range | |
| II. Give Examples | | | |
| Write an example of your fund | ction for <u>some sample inputs</u> | | |
| = | | | |
| Use the function here | What should the function produce? | | |
| = | | | |
| Use the function here | What should the function produce? | | |
| | | | |
| Use the function here | What should the function produce? | | |
| = | | | |
| Use the function here | What should the function produce? | | |
| III. Definition | able names to all your input values | | |
| Write the Formula, giving variable names to all your input values. | | | |
| = | | | |