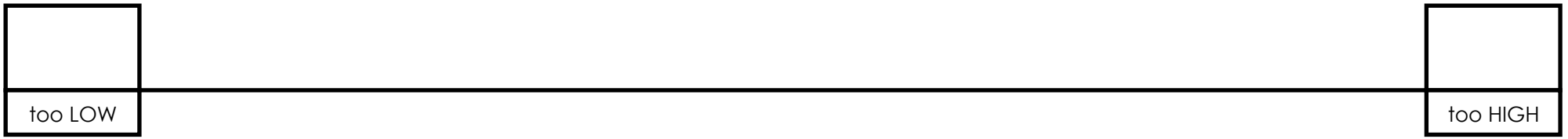
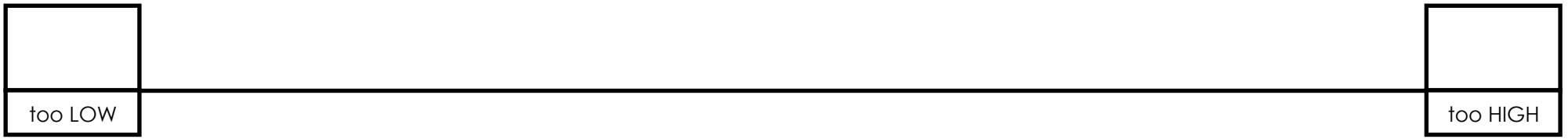
ESTIMATION 180

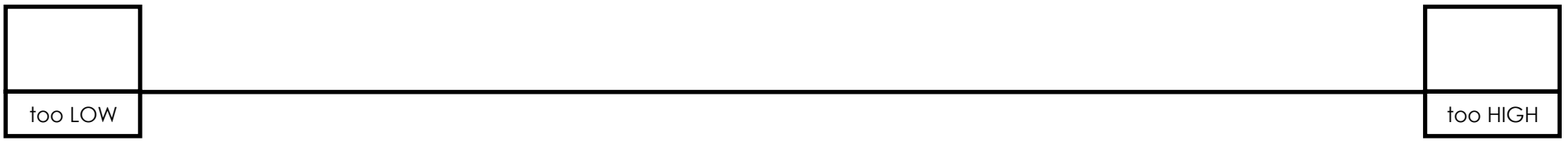
Building number sense one day at a time.

Name _____

Challenge	My Estimate	My Reasoning	The Answer







Reverse Engineer a Video Game

Thing in the Game	What Changes About it?	More Specifically?

Estimation 180
Building number sense one day at a time

Name:
Period:

Day #	Description	⬇ Too Low	Too High ⬆	My Estimate	My Reasoning	Answer	Error	|Error| as %
Ex. A	Tyler's age (months)	24	36	30	He looks a little older than my cousin (who is 2)	26	(+) / – 4	4/26 ≈ 15%
Ex. B	*Bohemian Rhapsody*	4:00	5:00	4:30	10% of song = 30 sec 300 sec total = 5 min	5:56	+ / (–) 86	86/356 ≈ 24%
							+ / –	
							+ / –	
							+ / –	
							+ / –	
							+ / –	
							+ / –	
							+ / –	
							+ / –	
							+ / –	
							+ / –	

Updated: Jul 31, 2013

Average:

Brainstorm - Create Your Own Video Game

Created by (write your names): _____

Background

Our game takes place: _____
(In space? The desert? A mall?)

The Player

The player is a _____.

The player moves only up and down.

The Target

Your player GAINS points when they hit the target.

The Target is a _____.

The Target moves only to the left and right.

The Danger

Your player LOSES points when they hit the danger.

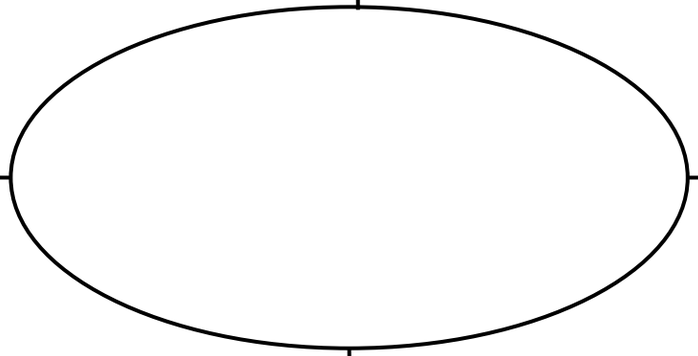
The Danger is a _____.

The Danger moves only to the left and right.

ArtWork Sketches

CIRCLE OF EVALUATION

RACKET CODE



PEMDAS

COMPARE AND CONTRAST

Sample Domain and Range workbook page

Last updated 2019-04-22 20:21:55 UTC

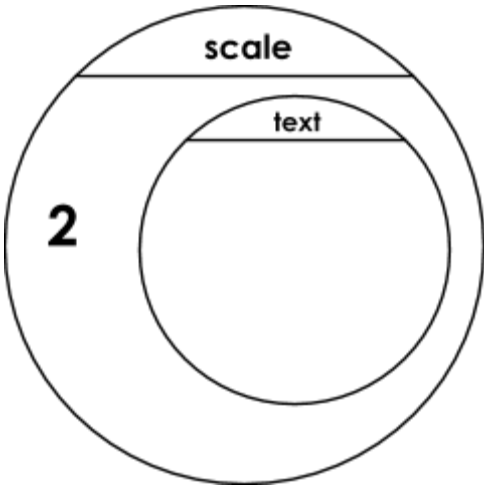
Function Composition - Explore

You'll be investigating these new functions with your partner:

; scale: Number Image -> Image
; rotate: Number Image -> Image
; flip-horizontal: Image -> Image
; flip-vertical: Image -> Image

First, draw a circle and write the code to create a text image of your name.

Fill in the missing information with your circle from above, then write the code.



Test out your code in WeScheme! What does scale do? _____

Now, try using circles to rotate the image of your name. Test out your code in WeScheme when you're ready.

Function Composition - Practice

Draw a circle and write the code for a **solid, green star, size 50**.

Using the circle and code from above, draw the circle and write the code for each of the exercises below.

A solid, green star that is 3 times the size of the original (using scale)	A solid, green star is half the size of the original (using scale)
A solid, green star of size 50 that has been rotated 45 degrees	A solid, green star that is 3 times the size of the original **and** has been rotated 45 degrees

Defining Values - Practice

Write the code to create a **solid, green star, size 50** and define it as PRIZE_STAR

Using the PRIZE_STAR definition from above, draw the circle and write the code for each of the exercises below.

A solid, green star that is 3 times the size of the original (using scale)	A solid, green star is half the size of the original (using scale)
A solid, green star of size 50 that has been rotated 45 degrees	A solid, green star that is 3 times the size of the original **and** has been rotated 45 degrees

How does defining values help you as a programmer?