

Lab 3.4 - If My Calculations Are Correct

In this lab, you will write custom reporter and predicate blocks to perform several useful calculations and computations.

Simple Computations

1. Write a custom Snap! reporter block called `min` that determines which of two numbers is smaller and reports that value. If the two numbers are equal, report either one.
2. Write a custom Snap! reporter block called `max` that determines which of two numbers is larger and reports that value. If the two numbers are equal, report either one.
3. Write a custom Snap! predicate block called `between` that determines if a number is between two other numbers. If the first number is equal to either of the other two numbers or is between them, the block should report "true".
4. Write a custom Snap! predicate called `at least as long as` that determines whether a word has at least a specified number of letters.

Bonus: Stepping Things Up

Write a custom Snap! reporter block called `distance` to that computes and reports the distance from a sprite's position to another point. Use the `x position` and `y position` blocks to determine the sprite's position. Remember that the formula for the distance between points (x_1, y_1) and (x_2, y_2) is $\text{sqrt}((y_2 - y_1)^2 + (x_2 - x_1)^2)$.

Grading Scheme/Rubric

Lab 3.4 Criteria	Points
1.1 min	0.5
1.2 max	0.5
1.3 between	0.5
1.4 at least as long as	0.5
Bonus	0.5
PROJECT TOTAL	2.0 points

