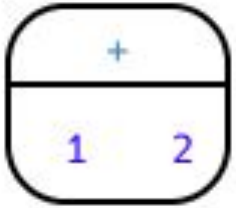
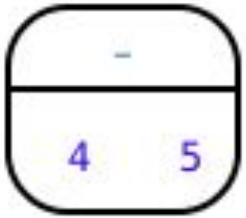
Simple Inequalities

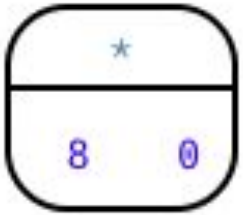
@BootstrapWorld

Introducing Booleans

Evaluate each of these Circles of Evaluation and turn them into code.





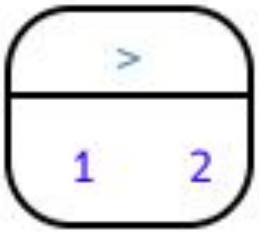


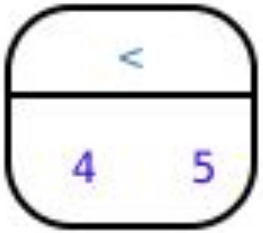
Introducing Booleans

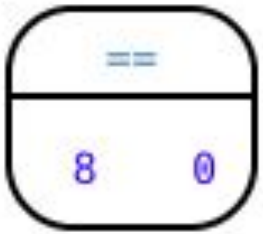
Hypothesize:

What do you these Circles of Evaluation mean?

Convert them to code. **What do they evaluate to?**







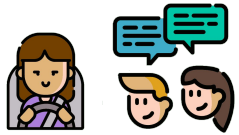
Students browse: code.pyret.org

Introducing Booleans

Values like `true` and `false` obviously aren't Numbers or Images. But they also aren't Strings, or else they would have quotes around them. This is a totally different *data type*, called a ***Boolean***.

Introducing Booleans

Open Boolean Functions and use the Boolean starter file to complete the questions, identifying inputs that will make each function produce `true`, and inputs that will make each function `false`.



Students browse: code.pyret.org/editor#share=1qoAI2cFSeM7HIrR5L6LzOAX9DIXu9Le1&v=8c...

Introducing Inequalities

Unlike equations, which have finite solution sets, inequalities can have infinite solutions.

Inequality expressions divide all of the numbers in the universe into two categories: solutions and non-solutions.

Introducing Inequalities

This starter file includes a special `inequality` function that consumes an *inequality test* (a function!) and a list of 8 “test numbers”, then plots the inequality and the numbers on a number line.

The starter file includes an example. Read the example code in the file carefully and click run to see the image it returns. Discuss the code with your partner.

- What do you Notice?
- What do you Wonder?

Students browse: code.pyret.org/editor#share=11BYRF8HhPyrAuPOttTxDDHoBhCnUyEmI&v=8c...

Introducing Inequalities

Open to Simple Inequalities and complete it with your partner. Identify solutions and non-solutions to each inequality and test them in the Inequalities Starter file.

Students browse: code.pyret.org/editor#share=11BYRF8HhPyrAuPOttTxDDHoBhCnUyEmI&v=8c...

Introducing Inequalities

What patterns did you notice in how the inequalities worked?

Additional Exercises

Solutions & Non-Solutions to Inequalities (Desmos Activity)

Word Problem: Is-Hot?