# Numbers and Strings

Referenced from lesson [Simple Data Types](https://www.bootstrapworld.org/materials/spring2021/en-us/courses/data-science/lessons/simple-datatypes/index.shtml) (Spring, 2021)

Make sure you’ve loaded the code.pyret.org, (CPO) editor, clicked “Run”, and are working in the ***Interactions Area***.

## **Numbers**

1 Try typing 42 into the Interactions Area and hitting “Enter”. What is the largest number the editor can handle?

2 Try typing 0.5. Then try typing .5. Then try clicking on the answer. Experiment with other decimals. Explain what you understand about how decimals work in this programming language.

3 What happens if you try a fraction like 1/3?

4 Try writing negative integers, fractions and decimals.

## **Strings**

String values are always in quotes.

5 Is 42 the same as "42"? Why or why not? Write your answer below:

6 Try typing your name *(in quotes!)*.

7 Try typing a sentence like "I’m excited to learn to code!" *(in quotes!)*.

8 Try typing your name with the opening quote, but *without the closing quote.* Read the error message!

9 Now try typing your name *without any quotes.* Read the error message!

10 Explain what you understand about how strings work in this programming language.

## **Operators**

11 Just like math, Pyret has ***operators*** like +, -, \* and /. Try typing in 4 + 2, and then 4+2 (without the spaces). What can you conclude from this?

12 Type in the following expressions, one at a time: 4 + 2 + 6, 4 + 2 \* 6, 4 + (2 \* 6). What do you notice?

13 Try typing in 4 + "cat", and then "dog" + "cat". What can you conclude from this?

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