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Reading and Practice for Section 4

This guide assumes that you have watched section 4 (video lecture segments Lec 4.1, Lec 4.2, Lec 4.3, Lec 4.4, Lec 4.5) in Courseware.

This corresponds to textbook sections:

- [Chapter 3.1: Expressions](#)
- [Chapter 3.2.1: Growth Rates](#)
- [Chapter 4.1: Numbers](#)

In section 4, we learned more details about numbers and arithmetic in Python, and we applied those details to calculate growth rates. We were also introduced to arrays a powerful way to store and manipulate multiple values. Arrays and tables are extremely important concepts throughout this course. A table is just a collection of arrays; each column in a table is just an array with a label. We learned the `column` table method, which is defined below.

`tbl.column(column_name_or_index)` returns an array with only the values in the specified column

See if you can answer the following questions.

Practice for Section 4

0 points possible (ungraded)

Suppose Data8.1X initially starts with students enrolled. Each month, 5% more students consistently enroll in Data8.1X.

Which line of code correctly evaluates to the number of students in Data8.1X class after 7 months?

☐ `10000 * 6 ** 7`

☒ `10000 * 1.05 ** 7` ✓

☐ `10000 * 1.05 * 7`

What is the output for each line of code? Select the correct answer.

`make_array(2, 4, 8) * make_array(2, 2, 2)`

☒ `array([4, 8, 16])` ✓

☐ `array([2, 2, 2])`

☐ `28`

☐ None of the above or results in an error message

`make_array(2, 4, 8) * 2`

☒ `array([4, 8, 16])` ✓

☐ `array([2, 2, 2])`

☐ `28`

☐ None of the above or results in an error message

```
make_array(2, 4, 8) * make_array(2, 2)
```

☐ `array([4, 8, 16])`☐ `array([2, 2, 2])`☐ `28`☒ None of the above or results in an error message ✓Submit

✓ Correct

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? [Python & Matlab: arrays and matrices](#)

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[Hi, Question regarding the following question: make_array\(2, 4, 8\) * make_array\(2, 2, 2\). It seems that Py...](#)

💬 [For those confused by the make_array\(\)](#)

1

[If you want to test in your interactive python environment, try some thing like that: import numpy as np...](#)

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