

1.

Lists and their contents are immutable, so their elements cannot be modified, added, or removed.

1 / 1 point

☐

True

☒

False

☒

Correct

Lists and their contents are mutable, so their elements can be modified, added, or removed. A list is a data structure that helps store and manipulate an ordered collection of items.

2.

What Python method adds an element to the end of a list?

1 / 1 point

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`append()`

☐

`pop()`

☐

`type()`

☐

`remove()`

☒

Correct

Python's `append()` method adds an element to the end of a list.

3.

A data professional wants to instantiate a tuple. What Python elements can they use to do so? Select all that apply.

1 / 1 point

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The `insert()` function

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Parentheses

☒

Correct

A data professional can use parentheses or the `tuple()` function to instantiate a tuple. A tuple is an immutable sequence that can contain elements of any data type.

☒

The `tuple()` function

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Correct

A data professional can use parentheses or the `tuple()` function to instantiate a tuple. A tuple is an immutable sequence that can contain elements of any data type.



Square brackets

4.

What Python technique formulaically creates a new list based on the values in an existing list?

1 / 1 point



List conversion



List nesting



List comprehension



List sequencing



Correct

A list comprehension formulaically creates a new list based on the values in an existing list. A list comprehension functions like a for loop, but is a more efficient and elegant way to create a new list from an existing list.