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1. In Python, what data structure helps store and manipulate an ordered collection of items?

0 / 1 point

- ☐ Tuple
- ☐ Set
- ☐ List
- ☒ Dictionary

⊗ Incorrect  
Review [the video that introduces lists.](#)

2. A data professional is working with a list named `cities` that contains data on global cities. The string `'Houston'` is the third element in the list. What Python code can they use to remove the string `'Houston'` from the list?

1 / 1 point

- ☒ `cities.pop(2)`
- ☐ `cities.pop(4)`
- ☐ `cities.pop(1)`
- ☐ `cities.pop(3)`

✓ Correct

3. In Python, what types of data can tuples contain? Select all that apply.

1 / 1 point

- ☐ Modules
- ☒ Strings

✓ Correct

- ☒ Floats

✓ Correct

- ☒ Integers

✓ Correct

4. Fill in the blank: In Python, a dictionary's keys must be \_\_\_\_\_.

1 / 1 point

- ☐ equal
- ☒ immutable
- ☐ identical
- ☐ mutable

☒ Correct

5. A data professional is working with a dictionary named **employees** that contains employee data for a healthcare company. What Python code can they use to retrieve both the dictionary's keys and values?

1 / 1 point

- ☐ `keys.employees()`
- ☒ `employees.items()`
- ☐ `items.employees()`
- ☐ `employees.keys()`

☒ Correct

6. A data professional is working with two Python sets. What function can they use to find the elements present in one set, but not the other?

1 / 1 point

- ☐ `union()`
- ☐ `intersection()`
- ☐ `symmetric_difference()`
- ☒ `difference()`

☒ Correct

7. Fill in the blank: In Python, \_\_\_\_\_ typically contain a collection of functions and global variables.

1 / 1 point

- ☐ keywords
- ☐ logical operators
- ☒ modules
- ☐ comparators

☒ Correct

8. A data professional is working with a NumPy array that has three rows and two columns. They want to change the data into two rows and three columns. What method can they use to do so? 1 / 1 point
- ☐ `groupby()`
- ☒ `reshape()`
- ☐ `agg()`
- ☐ `type()`
- ☒ Correct
9. A data professional is working with a pandas dataframe named `sales` that contains sales data for a retail website. They want to know the price of the least expensive item. What code can they use to calculate the minimum value of the `Price` column? 1 / 1 point
- ☒ `sales['Price'].min()`
- ☐ `sales = 'Price'.min()`
- ☐ `sales.min().(Price)`
- ☐ `sales.min().Price`
- ☒ Correct
10. In pandas, what is the difference between the `iloc[]` and `loc[]` methods? 0 / 1 point
- ☐ `iloc[]` selects dataframe rows and columns by index; `loc[]` selects dataframe rows and columns by name.
- ☒ `iloc[]` selects dataframe rows and columns by name; `loc[]` selects dataframe rows and columns by index.
- ☐ `iloc[]` merges two dataframes horizontally; `loc[]` merges two dataframes vertically.
- ☐ `iloc[]` merges two dataframes vertically; `loc[]` merges two dataframes horizontally.
- ☒ Incorrect
- Review [the video about pandas basics.](#)
11. A data professional wants to merge two pandas dataframes. They want to join the data so all of the keys from both dataframes get included in the merge. What technique can they use to do so? 1 / 1 point
- ☐ Inner join
- ☒ Outer join
- ☐ Left join
- ☐ Right join

✓ Correct