This notebook is an exercise in the Pandas (https://www.kaggle.com/learn/pandas) course. You can reference the tutorial at this link (https://www.kaggle.com/residentmario/data-types-and-missing-values).

Introduction

Run the following cell to load your data and some utility functions.

```
import pandas as pd

reviews = pd.read_csv("../input/wine-reviews/winemag-data-130k-v2.csv",
    index_col=0)

from learntools.core import binder; binder.bind(globals())
    from learntools.pandas.data_types_and_missing_data import *
    print("Setup complete.")
```

Setup complete.

Exercises

1.

What is the data type of the points column in the dataset?

```
# Your code here
dtype = reviews.points.dtype

# Check your answer
q1.check()
```

Correct

```
In [ ]:
    #q1.hint()
    #q1.solution()
```

2.

Create a Series from entries in the points column, but convert the entries to strings. Hint: strings are str in native Python.

```
In [4]:
    point_strings = reviews.points.astype('str')

# Check your answer
q2.check()
```

Correct

```
In [ ]:
    #q2.hint()
    #q2.solution()
```

3.

Sometimes the price column is null. How many reviews in the dataset are missing a price?

```
In [8]:
    n_missing_prices = pd.isnull(reviews.price).sum()

# Check your answer
q3.check()
```

Correct

```
In [10]:
    #q3.hint()
    #q3.solution()
```

4.

What are the most common wine-producing regions? Create a Series counting the number of times each value occurs in the region_1 field. This field is often missing data, so replace missing values with Unknown. Sort in descending order. Your output should look something like this:

```
Unknown 21247
Napa Valley 4480
...

Bardolino Superiore 1
Primitivo del Tarantino 1
Name: region_1, Length: 1230, dtype: int64
```

```
reviews_per_region = reviews.region_1.fillna("Unknown").value_counts().
sort_values(ascending=False)

# Check your answer
q4.check()
```

Correct

```
In [16]:
    #q4.hint()
    #q4.solution()
```

Keep going

Move on to renaming and combining (https://www.kaggle.com/residentmario/renaming-and-combining).

Have questions or comments? Visit the Learn Discussion forum (https://www.kaggle.com/learn-forum/161299) to chat with other Learners.