✓ **Congratulations! You passed!**

| **Grade** | **Latest Submission** | **To pass** 80% or | |
| received 97.22% | Grade 97.22% | higher | **Go to next item** |

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1. Which of the following terms are used to describe missing data? Select all that apply.   **1 / 1 point**

   ☑ N/A

   > ✓ **Correct**

   ☐ Zero

   ☑ NaN

   > ✓ **Correct**

   ☑ Blank

   > ✓ **Correct**

2. Stakeholders at a film studio hire a data analytics firm to provide insights about the best locations for film shoots. However, the film studio's datasets contain missing data. Which of the following strategies can help the data analytics firm solve this problem? Select all that apply.   **0.75 / 1 point**

   ☐ Use their best judgment to add in values themselves.

   ☑ Ask the film studio to fill in the missing values.

   > ✓ **Correct**

   ☑ Create a NaN category.

   > ✓ **Correct**

   ☐ Add in the missing values by taking the average values from the existing data.

   > You didn't select all the correct answers

3. A data professional writes the following code: **1 / 1 point**

   ```
   df.merge(df_zip, how='left',
        on=['date','center_point_geom'])
   ```

   Which section of the code refers to the dataframe to be merged with `df`?

   ○ `merge`

   ○ `center_point_geom`

   ◉ `df_zip`

   ○ `how='left'`

   > ✓ **Correct**

4. What tasks could the pandas function `pd.isnull()` be used for? Select all that apply.   **1 / 1 point**

   ☐ To change all values to nulls in a data frame

   ☑ To pull all of the missing values from a data frame

   > ✓ **Correct**

   ☑ To identify when a value is missing from a data frame

   > ✓ **Correct**

   ☐ To delete all of the values from a data frame

5. What type of outliers are a group of abnormal points that follow similar patterns and are isolated from the rest of a population?

- ○ Contextual outliers
- ○ Atypical outliers
- ◉ Collective outliers
- ○ Global outliers

✓ **Correct**

1 / 1 point

6. A data team works for a stereo installation company. To gain insights into what products people are most likely to purchase in the coming year, they review categorical data about 20 of the most popular stereos. Rather than using brand names, they assign a different number to each stereo to make the data simpler to join. What does this scenario describe?

- ○ Data smoothing
- ○ Aggregation
- ○ Normalization
- ◉ Label encoding

✓ **Correct**

1 / 1 point

7. Fill in the blank: A heat map is a data visualization that displays the magnitude of a set of values using _____ to show the concentration of the values.

- ○ slices
- ○ a series of markers
- ○ vertical bars
- ◉ colors

✓ **Correct**

1 / 1 point

8. What does the pandas function `pd.duplicated()` return to indicate that a data value is a duplicate of another value within the same dataset?

- ○ False
- ◉ True
- ○ Unique
- ○ Duplicate

✓ **Correct**

1 / 1 point

9. Fill in the blank: The pandas function _____ enables data professionals to create a new dataframe with all duplicate rows removed.

- ○ `de_duplication()`
- ◉ `drop_duplicates()`
- ○ `deduplicate()`
- ○ `deduplication()`

✓ **Correct**

1 / 1 point