✓ **Congratulations! You passed!**

| Grade | Latest Submission | To pass 80% or | **Go to next item** |
received 100% | Grade 100% | higher |

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

☑ NaN

> ✓ **Correct**

☑ Blank

> ✓ **Correct**

☐ Zero

☑ N/A

> ✓ **Correct**

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2. A data professional at a garden center researches data related to ideal growing climates. As they familiarize themselves with the datasets, they discover some data is missing. Which of the following strategies can help them solve this problem? Select all that apply.   `1 / 1 point`

☑ Derive new representative values based on available data.

> ✓ **Correct**

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

> ✓ **Correct**

☐ Change the missing values to Boolean data that is either true or false.

☑ Create a NaN category.

> ✓ **Correct**

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

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

Which of the following indicates that the first data frame should be merged with another data frame?

○ `on=`

○ `zip`

◉ `merge()`

○ `how=`

> ✓ **Correct**

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4. What pandas function is used to pull all of the missing values from a data frame?   `1 / 1 point`

○ `pd.getnull()`

◉ `pd.isnull()`

○ `pd.findnull()`

○ `pd.ofnull()`

> ✓ **Correct**

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5. What type of outliers are values that are completely different from the overall data group and have no association with any other outliers?   `1 / 1 point`

○ Dissimilar outliers

○ Contextual outliers

○ Global outliers

○ Collective outliers

✓ **Correct**

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6. A data professional works for a veterinary office. To gain insights about the most common household pets, they study categorical data about pet adoptions over the past five years. They assign the number 1 to dogs, 2 to cats, 3 to hamsters, and so on. What does this scenario describe?

1 / 1 point

◉ Label encoding

○ Data blending

○ Data partitioning

○ Aliasing

✓ **Correct**

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

1 / 1 point

○ bar graph

○ bubble chart

○ line chart

◉ heat map

✓ **Correct**

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8. What pandas function enables a data professional to determine if duplicate values are present in a dataset?

1 / 1 point

◉ `pd.duplicated()`

○ `pd.deduplication()`

○ `pd.dupe()`

○ `pd.deduplicates()`

✓ **Correct**

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9. Fill in the blank: A data professional should _____ a duplicate when its value is clearly a mistake or will misrepresent the remaining unique values within the dataset.

1 / 1 point

○ keep

○ filter

○ replicate

◉ eliminate

✓ **Correct**