

The screenshot shows a web-based coding environment. On the left, there's a sidebar with the title 'Exercise' and a sub-header 'Making a count plot with a list'. The text explains that in a previous exercise, a dataset of 227 countries was explored, and now the goal is to explore how many countries are in each region of the world. It states that count plots are used for categorical lists to show the number of entries per category, and a variable named 'region' is used. Below this, there are instructions: 'Import Matplotlib and Seaborn using the standard naming conventions.', 'Use Seaborn to create a count plot with region on the y-axis.', and 'Display the plot.' A 'Take Hint (~30 XP)' button is also present. On the right, a code editor shows a Python script with the following content:

```
1 # Import Matplotlib and Seaborn
2
3
4
5 # Create count plot with region on the y-axis
6 -----(y=----)
7
8 # Show plot
9
```

At the bottom of the code editor, there are buttons for 'Run Code' and 'Submit Answer'. Below the code editor is an 'IPython Shell' window with a prompt 'In [1]:'.

Question: Making a count plot with a list using Seaborn

Correct Answer and Explanation:

Code Implementation:

```
# Import Matplotlib and Seaborn
import matplotlib.pyplot as plt
import seaborn as sns
```

```
# Create count plot with region on the y-axis
sns.countplot(y=region)
```

```
# Show plot
plt.show()
```

Explanation:

1. ``sns.countplot(y=region)``:

- Uses the Seaborn library to create a count plot. The ``y`` parameter specifies the variable ``region``, which contains the list of regions for each country.

2. ``plt.show()``:

- Displays the count plot, ensuring it is rendered visually.

This implementation effectively creates a bar chart that represents the number of countries in each region, as indicated by the variable ``region``.