Creating an Output Table with Custom Columns

The **pg1.np_westweather** table contains weather-related information for four national parks: Death Valley National Park, Grand Canyon National Park, Yellowstone National Park, and Zion National Park. Use the MEANS procedure to analyze the data in this table.

1. Create a new program. Write a PROC MEANS step to analyze rows from **pg1.np_westweather** with the following specifications:

    - Exclude rows where values for **Precip** are equal to *0*.
    - Analyze precipitation amounts grouped by **Name** and **Year**.
    - Create only an output table, named **rainstats**, with columns for the N and SUM statistics.
    - Name the columns **RainDays** and **TotalRain**, respectively.
    - Keep only those rows that are the combination of **Year** and **Name**.
    - Submit the program and view the output data.

```
proc means data=pg1.np_westweather noprint;
    where Precip ne 0;
    var Precip;
    class Name Year;
        ways 2;
        output out=rainstats n=RainDays sum=TotalRain;
run;
```

2. How many rows are in **work.rainstats**?

    12

3. Write a PROC PRINT step to print the **rainstats** table.

    - Suppress the printing of observation numbers, and display column labels.
    - Display the columns in the following order: **Name**, **Year**, **RainDays**, and **TotalRain**.
    - Label **Name** as **Park Name**, **RainDays** as **Number of Days Raining**, and **TotalRain** as **Total Rain Amount (inches)**.
    - Use **Rain Statistics by Year and Park** as the report title.
    - Submit the program and review the results.

```
title1 'Rain Statistics by Year and Park';
proc print data=rainstats label noobs;
    var Name Year RainDays TotalRain;
    label Name='Park Name'
          RainDays='Number of Days Raining'
          TotalRain='Total Rain Amount (inches)';
run;
title;
```

4. What is the **Total Rain Amount (inches)** value in row one?

    2.45