Computer Tools

420-CT1-AS

**Required Graphs for the Final Exam**

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*Graph #1: Total Sales for the East Region by Category of Food*

Chart, bar chart

Description automatically generated

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Carrot | Whole Wheat | Chocolate Chip | Arrowroot | Potato Chips |
| $330.99 | $823.64 | $211.31 | $161.32 | $37.80 |

This graph showcases the total amount of profit gained from sales in the East region only, sorted by category of food sold.

To make this graph, I first made a column from L25 to L29 with the titles for each category of food. This column uses each of the category titles exactly once. Then, in cells M25 to M29, I used the SUMIFS function to sum up all the total price records that matched two criteria. First, they had to be in the East region. Second, the category of the price record must have matched the category title in the adjacent cell. Since the adjacent column contained each category title once, I was able to sum up the total profit for each category.

The exact formula used:

=SUMIFS(H3:H14, B3:B14, "East", E3:E14, L25)

* H3:H14: The column containing the total prices.
* B3:B14: The column containing the regions.
* E3:E14: The column containing the category of food.
* L25: The cell containing the category title that I wanted a match for. This varied from L25 to L29, as I needed a total price for five different categories and each one of those cells contained a different category.

*Graph #2: Sales Results by Product Type*

Chart, bar chart

Description automatically generated

|  |  |  |  |
| --- | --- | --- | --- |
| Bars | Crackers | Cookies | Snacks |
| $421.26 | $823.64 | $481.09 | $37.80 |

This graph shows the total amount of profit gained sorted by product type.

Again, I first made a column with the titles for each of the four product types. It can be found from L4 to L7 on my Excel sheet. I then used SUMIF to add together the total price records that were of the corresponding product type.

The exact formula used:

=SUMIF(D3:D14, L4, H3:H14)

* D3:D14: The column in the table containing the product types.
* L4: The cell with the product type I wanted a match for. This varied for L4 to L7 depending on the type I needed.
* H3:H14: The column in the table containing the total costs.