Questions based on the "Sample Superstore" dataset, covering various Tableau topics such as number functions, calculated fields, filters, maps, and string functions:

1. Number Functions

1. Question: Create a calculated field to find the average discount percentage for each product. Use this field to show the average discount in a table for each category.

- Hint: Use the `SUM` and `AVG` functions in your calculated field.

2. Question: Find the top 10 products with the highest total sales. Create a bar chart to visualize these products.

- Hint: Use the `SUM` function and set a filter to show only the top 10 products based on total sales.

2. Calculated Fields

3. Question: Create a calculated field called "Profit Margin" to show the profit margin percentage for each product. Use this field to create a color-coded table that highlights products with high and low profit margins.

- Hint: Profit Margin = (Profit / Sales) \* 100.

4. Question: Create a calculated field to classify each order into "High Value" (Sales > $500) and "Low Value" (Sales ≤ $500). Use this field to create a pie chart showing the distribution of high-value and low-value orders.

- Hint: Use an `IF` statement in the calculated field.

3. Filters

5. Question: Use filters to show only the orders placed in the "Furniture" category in 2018. Create a line chart showing monthly sales trends for the "Furniture" category in 2018.

- Hint: Use both a category filter and a date filter to restrict the data.

6. Question: Create a dashboard that includes a region filter. Use this filter to display different visualizations (e.g., sales by category, profit by segment) based on the selected region.

- Hint: Use a filter action on the dashboard to control multiple visualizations.

4. Maps

7. Question: Create a filled map to show total sales by state. Color-code the states based on their sales, using a gradient color scheme to distinguish between low and high sales regions.

- Hint: Use the "State" field for the map and the `SUM(Sales)` field for color encoding.

8. Question: Use a map to display the number of orders in each city. Add a size indicator to the map to represent the number of orders placed in each city.

- Hint: Use the "City" field for the map and `COUNT(Orders)` for the size indicator.

5. String Functions

9. Question: Create a calculated field to extract the first three characters of the "Product ID" and use it to show the count of products that start with a particular prefix.

- Hint: Use the `LEFT` string function in the calculated field.

10. Question: Create a calculated field to concatenate the "Category" and "Sub-Category" fields into a single field (e.g., "Furniture - Chairs"). Use this field to create a bar chart showing the total sales for each combined category.

- Hint: Use the `+` operator to concatenate strings or use the `CONCAT` function.

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