

Here are the key questions/exercises extracted from the Tableau learning material:

### **Week 3 Practice Questions:**

1. Display category-wise sales in dollars.
2. Display city-wise minimum sales.
3. Display year-wise sales.
4. Display year-wise total orders.
5. Display year-wise total orders along with total products.
6. Display how many customers in each region.
7. Display product-wise discounts.
8. Create a Dual Axis chart showing sales and profit.
9. Create Geographical Analysis using Symbol Maps and Filled Maps.
10. Display sales for category & sub-category only for 2021.
11. Display category/sub-category minimum & maximum sales for East/West regions.
12. Display products containing "Cannon" in their names with sales/profit.
13. Display top 10 customers with highest sales.
14. Display bottom 15 customers by sales.
15. Display only profitable sub-categories.
16. Create a Stacked Bar Chart showing year-wise sales across regions.
17. Display sub-categories with sales above \$100,000.
18. Display sub-categories with sales between 50,000–100,000.
19. Display products with Profit > 0 AND Sales between 100,000–200,000.
20. Display top 3 profitable months.
21. Display top 10 days of highest sales.
22. Display top 3 profitable quarters.
23. Display sales/profits for specific date ranges (Jan-Mar 2017, April 2017, etc.).
24. Display negative profit sub-categories.
25. Filter products with "Xerox" in name and sales above \$2,000.

### **Chart Implementation Questions:**

26. Create Horizontal/Stacked/Side-by-Side Bar Charts.
27. Create Discrete/Continuous/Dual Line Charts.

28. Create Discrete/Continuous Area Charts and Dual Combination Charts.
29. Implement Symbol Maps and Filled Maps for geographical analysis.
30. Create Tree Maps, Heat Maps, Highlight Tables, and Text Tables.
31. Build Pie Charts, Circle Charts, Scatter Plots, Histograms, Packed Bubbles, and Box-Whisker Plots.

### Parameter-Based Questions:

32. Display category/sub-category sales for selected regions using parameters.
33. Display top N states with highest profits using parameters.
34. Display products above X% discount using a parameter (with slider).

### Advanced Mapping Exercises:

35. Create custom geo-coded maps using Indian state data from text files.
36. Display dual-axis maps with profits (filled) and sales (symbol) on the same sheet.

These questions cover data visualization, filtering, parameters, chart types, and geographical analysis in Tableau.

so explain the process of each question as simple and short as possible



Thought for 19 seconds ^

Okay, let me start by understanding what the user is asking for. They want a simple and short explanation of the process for each Tableau question listed. The user probably has a list of tasks from their learning material and needs quick, concise steps to follow without detailed explanations.

First, I need to go through each of the 36 questions and figure out the core steps required to solve them. The key here is brevity and clarity. Each answer should be a straightforward list of steps, using common Tableau actions like drag-and-drop, selecting options, and applying filters.

I should consider the user's possible familiarity with Tableau terms. They might be beginners, so avoiding jargon where possible would help. For example, terms like "dual axis" or "parameters" might need to be explained in simple terms, but since the user asked for short answers, maybe just mentioning the terms with context is enough.

Looking at the questions, they range from basic charts to more complex parameter-based analyses. For each, I'll outline the main actions. For instance, question 1 is about displaying category-wise sales in

dollars. The steps would involve dragging the category to columns, sales to rows, and formatting the sales as currency.

I need to ensure that each step is numbered and uses imperative verbs. Also, consistency is key. For example, phrases like "Drag X to Rows/Columns", "Right-click > Measure > Sum", "Apply filter by..." should be standard across answers.

Some questions involve parameters or advanced features. For those, I'll need to mention creating a parameter and linking it to the relevant field. For example, question 32 requires creating a region parameter and linking it to the filter.

I should also check for any repeated patterns. Questions about top/bottom N items will follow a similar structure: drag the dimension and measure, apply a top/bottom filter. Geographical questions involve using the map features and ensuring geographic roles are set.

I must avoid any markdown formatting as per the user's request and keep each explanation as a simple list. Each question's answer should be a separate entry with clear, concise steps.

Finally, I'll review all the answers to ensure they match the questions correctly and that the steps are logically ordered. Making sure that no step is missed and that each action leads to the desired visualization or analysis.

Here's a **simplified step-by-step guide** for all 36 questions. Each answer assumes you start with the "Sample Superstore" dataset:

## Basic Analysis

### 1. Category-wise sales in dollars

- Drag *Category* to Columns > *Sales* to Rows > Right-click Sales > Format to Currency (\$).

### 2. City-wise minimum sales

- Drag *City* to Columns > *Sales* to Rows > Right-click Sales > Change to MIN.

### 3. Year-wise sales

- Drag *Order Date* to Columns > Right-click > Year > Drag *Sales* to Rows.

### 4. Year-wise total orders

- Drag *Order Date* to Columns > Year > Drag *Order ID* to Rows > Right-click > CNTD.

### 5. Year-wise orders + products

- Drag *Order Date* (Year) to Columns > Drag *Order ID* and *Product ID* to Rows > Right-click both > CNTD.

## 6. Customers per region

- Drag *Region* to Columns > *Customer ID* to Rows > Right-click > CNTD.

## 7. Product-wise discounts

- Drag *Product Name* to Rows > *Discount* to Columns.

## Filters & Conditional Analysis

### 8. Dual Axis (Sales + Profit)

- Drag *Sub-Category* to Columns > *Sales* and *Profit* to Rows > Right-click Profit > Dual Axis.

### 9. Symbol/Filled Maps

- Double-click *State* > Drag *Sales* to Size (Symbol) or Color (Filled).

### 10. Sales for 2021 only

- Drag *Order Date* to Filters > Select 2021 > Drag *Category/Sub-Category* + *Sales* to Sheet.

### 11. Min/Max sales in East/West

- Drag *Region* to Filters > Select East/West > Drag *Category/Sub-Category* + *Sales* (MIN/MAX) to Sheet.

### 12. Products with "Cannon"

- Drag *Product Name* to Rows > Filter > Wildcard > "Cannon" > Add *Sales/Profit*.

## Top/Bottom Analysis

### 13. Top 10 customers

- Drag *Customer Name* to Rows > *Sales* to Columns > Filter > Top 10 by Sales.

### 14. Bottom 15 customers

- Same as above > Filter > Bottom 15.

### 15. Profitable sub-categories

- Drag *Sub-Category* to Rows > Filter *Profit* > Condition: SUM(Profit) > 0.

## Date Analysis

## 16. Stacked Bar (Year-Region Sales)

- Drag *Order Date* (Year) to Columns > *Region* to Color > *Sales* to Rows.

## 17. Sales above \$100k

- Drag *Sub-Category* to Rows > Filter *Sales* > Condition: SUM(Sales) > 100000.

## 18. Sales between 50k–100k

- Same as above > Filter *Sales* >  $50000 \leq \text{SUM}(\text{Sales}) \leq 100000$ .

## 19. Profitable products

- Drag *Product Name* to Rows > Filter *Profit* > 0 AND *Sales* 100k-200k.

## 20. Top 3 profitable months

- Drag *Order Date* (Month) to Rows > Filter > Top 3 by Profit.

## Advanced

### 21. Top 10 days of sales

- Drag *Order Date* (Exact Date) to Rows > Filter > Top 10 by Sales.

### 22. Top 3 profitable quarters

- Drag *Order Date* (Quarter) to Rows > Filter > Top 3 by Profit.

### 23. Sales for Jan-Mar 2017

- Drag *Order Date* to Filters > Date Range: Jan 1–Mar 31, 2017 > Add *Sales*.

### 24. Negative profit sub-categories

- Drag *Sub-Category* to Rows > Filter *Profit* < 0.

### 25. "Xerox" + sales >\$2k

- Filter *Product Name* ("Xerox") + *Sales* > 2000.

## Charts

### 26. Bar Charts

- Drag dimensions to Columns/Rows > Show Me > Bar.

### 27. Line Charts

- Drag date + measure > Show Me > Line.

### 28. Area Charts

- Drag date + measure > Show Me > Area.

## 29. **Tree/Heat Maps**

- Drag dimensions > Show Me > Treemap/Heatmap.

## 30. **Pie/Circle Charts**

- Drag dimensions + measure > Show Me > Pie/Circle.

## 31. **Scatter/Box Plots**

- Drag two measures > Show Me > Scatter/Box.

## **Parameters**

### 32. **Dynamic region selection**

- Create *Region* parameter > Link to filter > Drag *Category/Sales*.

### 33. **Top N states by profit**

- Create *N* parameter > Filter states > Top N by Profit.

### 34. **Discount % slider**

- Create float parameter > Filter products where Discount > parameter.

## **Maps**

### 35. **Custom India map**

- Import .txt with states > Assign geographic role > Drag to sheet.

### 36. **Dual-axis map**

- Double-click *State* > Drag *Profit* (Filled) + *Sales* (Symbol) > Dual Axis.