# Tableau Desktop Specialist - Practice Test 1 Solutions

(*highlighted ones are the correct answer(s))

1. Which one of the following best describes measures?
   a. Text based data
   b. Qualitative data
   c. Quantitative data
   d. Map based data

2. How to concatenate two strings?
   a. The plus sign (+)
   b. AND
   c. Using Concat()
   d. OR

3. Which of the following are table calculations? (Select all that apply)
   a. Rank
   b. Running Sum
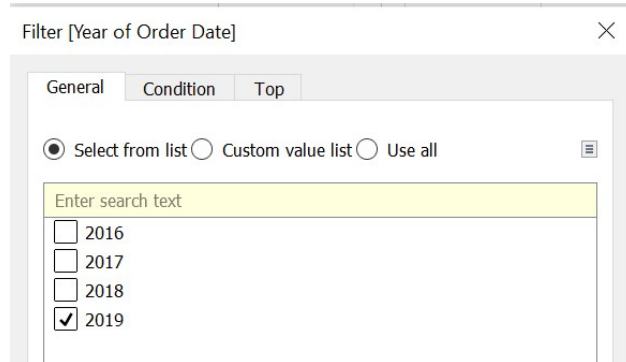   c. Percent of total
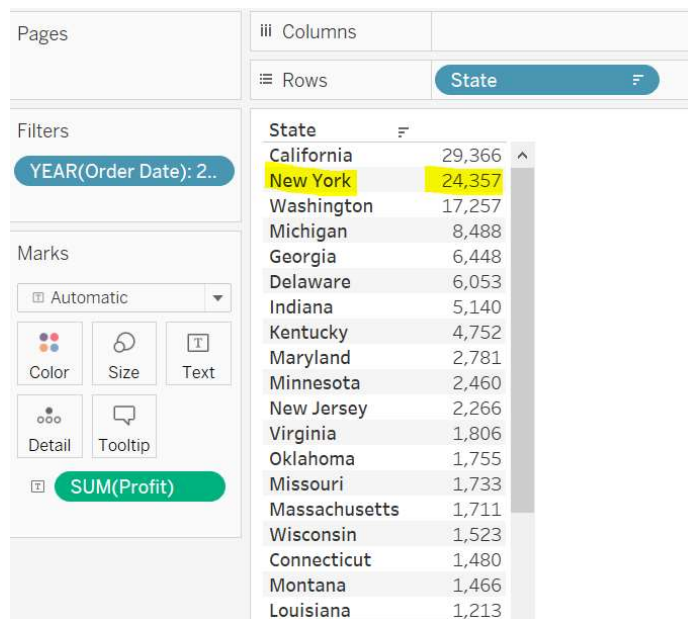   d. Moving Average
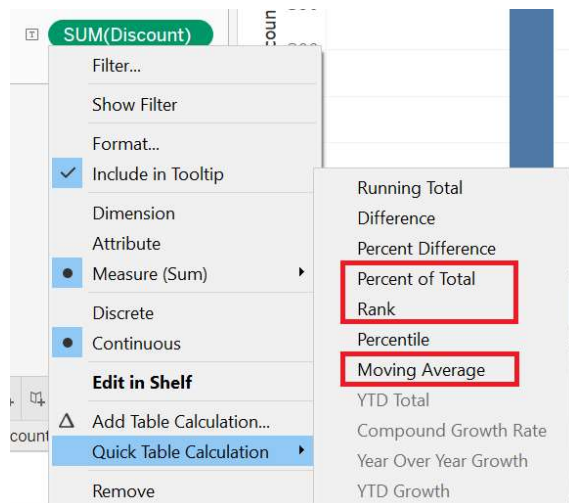
Running Sum is not valid here.

4. Connect to the "Sample - Superstore" data source and use Orders table. Find out which state has recorded second highest profit in the year 2019 and what is the profit value?
   a. California, $24357
   b. New York, $29366

c. California, $29366
d. <mark>New York, $24357</mark>

Drop the Order date to the filter, and select the Year 2019

Filter [Year of Order Date]   ✕

General   Condition   Top

◉ Select from list ◯ Custom value list ◯ Use all   ☰

Enter search text

☐ 2016
☐ 2017
☐ 2018
☑ 2019

Drop the State to the Rows and profit to the text. Sort it on the Profit field. Your view will look like this:

Pages	⋮⋮⋮ Columns	
	☰ Rows	State ⠋

| Filters	State ⠋	
YEAR(Order Date): 2..	California	29,366 ^
	New York	24,357
	Washington	17,257
Marks	Michigan	8,488
	Georgia	6,448
⊞ Automatic ▼	Delaware	6,053
	Indiana	5,140
⠿ Color ⬡ Size T Text	Kentucky	4,752
	Maryland	2,781
	Minnesota	2,460
⠿ Detail ▭ Tooltip	New Jersey	2,266
	Virginia	1,806
	Oklahoma	1,755
T SUM(Profit)	Missouri	1,733
	Massachusetts	1,711
	Wisconsin	1,523
	Connecticut	1,480
	Montana	1,466
	Louisiana	1,213

New York state has recorded second highest profit in the year 2019, and the profit value is $24,357

5. To explore the relationship between two measures in the dataset, which chart is best to use?
   a. Bar Chart
   b. Line Chart
   c. <mark>Scatter Plot</mark>
   d. Area Chart

6. Connect to the "Sample - Superstore" data source and use Orders table. Split the customer name into two fields FirstName and LastName. Find out how many distinct FirstName and LastName we have in our data?
    a. 678, 891
    b. 678, 898
    c. 338, 587
    d. 338, 621

At the Data Source Page, go to the Customer Name, and use the Split option. It will split this field into two fields, rename those fields as 'First Name' and 'Last Name'
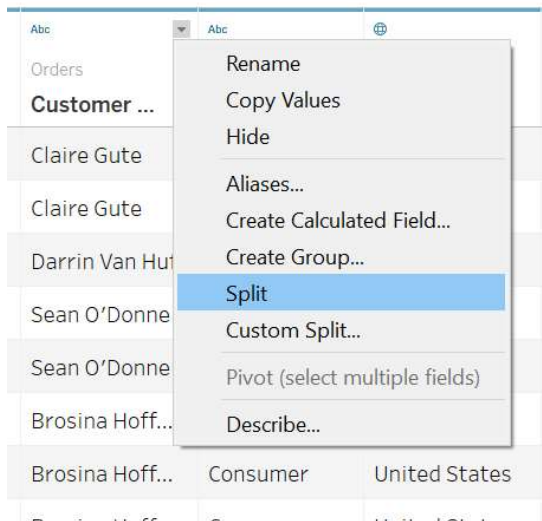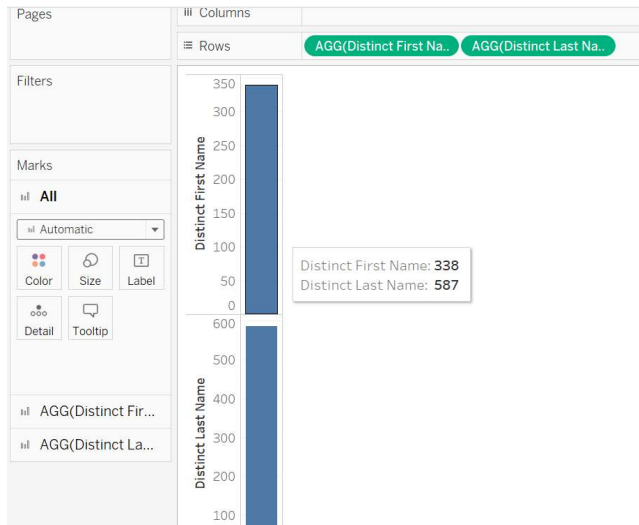

Create the Calculated Field "Distinct First Name":

Similarly, create the "Distinct Last Name"

And drop these fields to the view:

338 and 587 distinct FirstName and LastName we have in our data.

7. Which of the following is the date part?
    a. Q2 2020
    b. July
    c. 16-May-15
    d. 26-Jun-90

Only July is the date part, all other are date values.

8. Which of the following chart types best determine the distribution of medals among various age groups in a competition?
    a. Scatter Plot
    b. Treemap
    c. Histogram
    d. Pie chart

9. Connect to the "tds_sample_data_all" data source and use tables Stocks 2010-2013 and Stocks 2014. What is the difference in closing price of Amazon stock from the last day of 2013 Q4 (Dec 31) and first day of 2014 Q1 (Jan 2)?
    a. -1.41%
    b. -0.21%
    c. -0.31%
    d. 0.27%

Create a Union using sheets Stocks 2010-2013 and Stocks 2014.

Drop the Date to the Columns and Company to the Rows. Drop the Close to the Text. Your view will look like this:

Drop the Date to the filters shelf and select Month/Day/Year

Select these two dates and click ok:
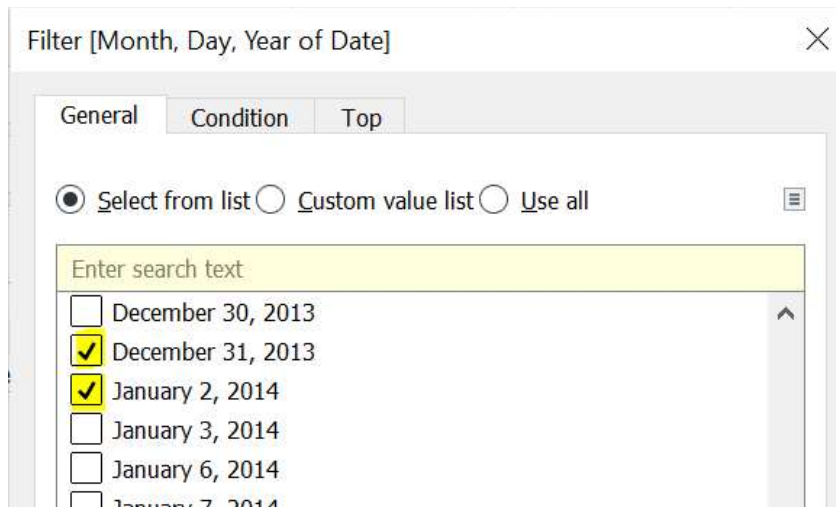
Use the percent difference Quick table calculation on the Close field:
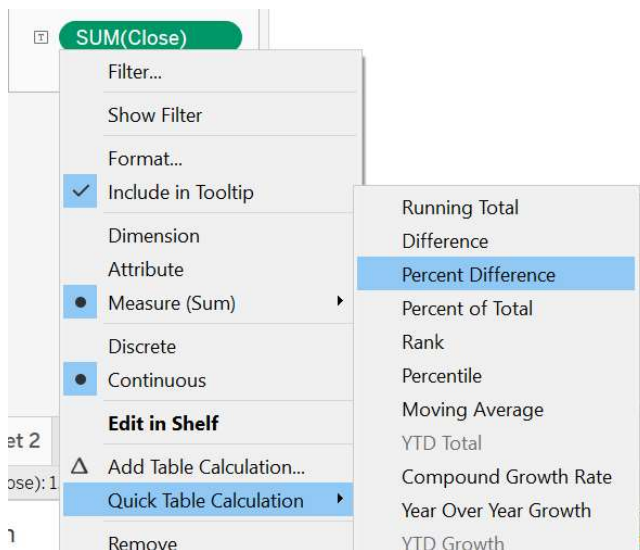
-.21% is the difference in closing price of Amazon stock from the last day of 2013 Q4 (Dec 31) and first day of 2014 Q1 (Jan 2)

10. Which of the following statement are true? (Select all that apply)
    a. Continuous fields are shown in green
    b. Discrete fields are shown in green
    c. Continuous fields are shown in blue
    d. Discrete fields are shown in blue

11. Which is the best chart to show the profit recorded over time?
    a. Scatter Plot
    b. Line chart
    c. Bullet Graphs
    d. Histogram

12. Connect to the "Sample - Superstore" data source and use Orders table. Which subcategory had the greatest percentage increase in sales between quarters Q3 and Q2 of 2018?
    a. Bookcases
    b. Binders
    c. Phones
    d. Envelopes

Drop the Order Date to Filter and Select Year as 2018
Drop the Order Date to the Columns and drill-down it to Quarters.
Drop the Sub-Category to the Rows and Sales to the Text. You view will look like this:

Pages		iii Columns		⊟ YEAR(Order Date)		⊞ QUARTER(Order D..	
		≡ Rows		Sub-Category			

	Order Date 2018			
Sub-Catego..	Q1	Q2	Q3	Q4
Accessories	4,891	7,223	12,445	17,337
Appliances	3,274	4,327	7,762	10,687
Art	846	1,468	1,870	1,777
Binders	3,542	4,688	12,604	28,850
Bookcases	3,571	4,154	9,760	8,790
Chairs	9,349	18,979	21,556	34,035
Copiers	960	10,440	11,620	26,580
Envelopes	1,082	417	1,587	1,644
Fasteners	88	151	248	473
Furnishings	4,198	5,269	6,339	12,068
Labels	132	572	826	1,296
Machines	17,744	24,273	3,310	10,579
Paper	2,734	6,710	5,061	6,157
Phones	15,851	18,159	18,450	26,501
Storage	8,848	13,805	14,447	21,688
Supplies	8,894	2,445	743	2,195
Tables	7,231	13,000	15,160	25,442

Filters
YEAR(Order Date): 2..

Marks
⊞ Automatic ▾
Color   Size   Text
Detail   Tooltip
T SUM(Sales)

Use the percent difference Quick table calculation on the Sales field.

Envelopes had the greatest percentage increase in sales between quarters Q3 and Q2 of 2018.

13. Parameters can be used in? (Select all that apply)
    a. Filters
    b. Reference Lines
    c. Groups
    d. Sets

14. Connect to the "tds_sample_data_all" data source and use tables Stocks 2010-2013 and Stocks 2014. Which company shares have the same Avg. Close price for Q3 and Q4 of 2012?
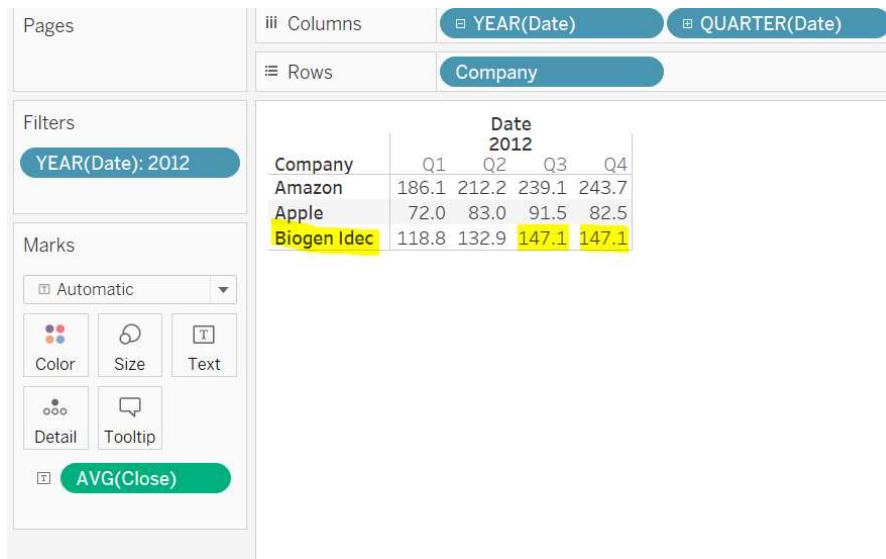   a. Biogen Idec
    b. Amazon
    c. Apple
    d. None of the above

Drop the Date to filter shelf and select year 2012.
Drop the Date to the Columns and drill-down it to Quarters.
Drop the Close field to the Text and change the aggregation to AVG.

Your final view will look like this:

Pages		iii Columns		⊟ YEAR(Date)			⊞ QUARTER(Date)

Filters

YEAR(Date): 2012

	Date 2012			
Company	Q1	Q2	Q3	Q4
Amazon	186.1	212.2	239.1	243.7
Apple	72.0	83.0	91.5	82.5
Biogen Idec	118.8	132.9	147.1	147.1

Marks

Automatic ▾

Color   Size   Text

Detail   Tooltip

T AVG(Close)

15. You cannot increase the size of which chart types? (Select all that apply)
    a. Treemaps
    b. Bar Chart
    c. Bullet Graphs
    d. Packed Bubbles

    Create the above chart types using the Show Me, you cannot increase the size of Packed
    Bubbles and Treemaps.

16. You would like to find the unique product IDs in your product catalogue. Which aggregation
    would you use here?
    a. Count
    b. Count distinct
    c. Median
    d. Maximum

17. The paper clip icon associated with the field denotes?
    a. Sets
    b. Hierarchies
    c. Groups
    d. Calculated fields

18. Open the SuperstoreDataDashboard.twbx file, using "Superstore Orders Analysis" dashboard
    what is the total sales recorded in California in December 2012 in the furniture segment?
    a. $6,233
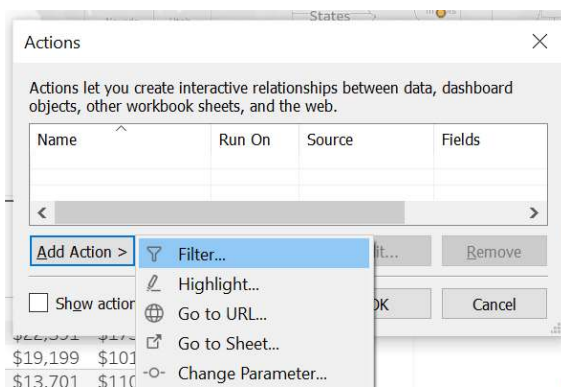   b. $5,255
    c. $6,541
    d. $6,412

First select the segment as Furniture.

We need to create an action, so once you select any state on the map, then the view Total Sales over time will be updated.

Go to the Dashboard Menu -> Actions -> Add Actions

Select the properties as:

Click Ok.

Select the State California, and hover on Total Sales over time view.
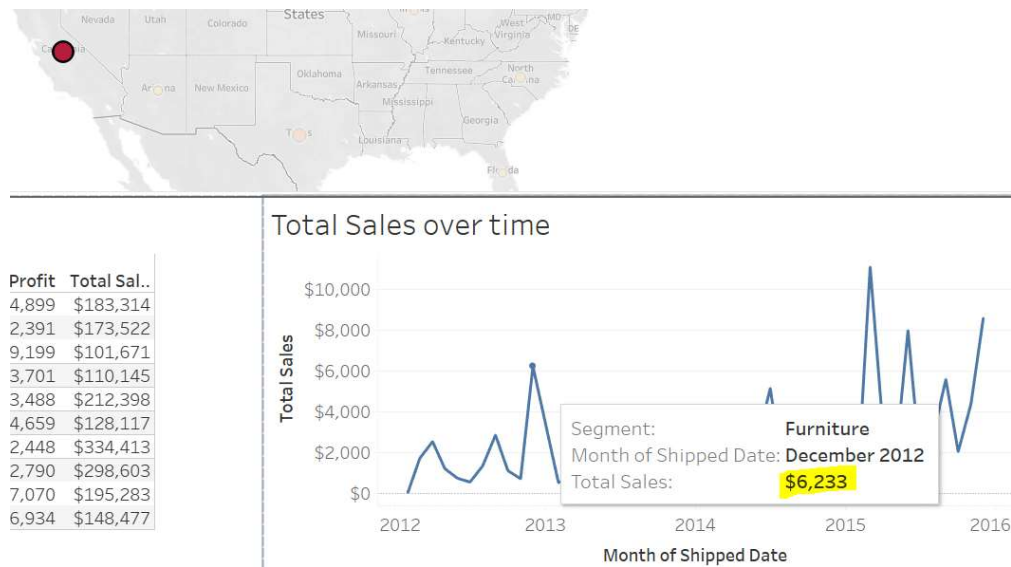
$6,233 is the correct answer.

19. Open the SuperstoreDataDashboard.twbx file, using "Top 10 States" sheet, consider only Australia, which Australian state is at 5th position on the basis of sum of sales?
    a. Victoria
    b. South Australia
    c. Queensland
    d. New South Wales

Go to the Top 10 States Sheet and drop the Seller Country field to the Filters. Select only Australia.

Filter [Seller Country]   ✕

General   Wildcard   Condition   Top

⦿ Select from list ◯ Custom value list ◯ Use all   ▤

┌───┐
│ Enter search text   │
├───┤
│ ☑ Australia   │
│ ☐ El Salvador   │
│ ☐ France   │
│ ☐ Germany   │
│ ☐ United Kingdom   │
│ ☐ United States   │
│   │
│   │
│   │
│   │
└───┘

    [All   ]   [None   ]   ☐ Exclude

Add Seller Country to a Context filter

Pages		iii Columns	Measure Nam
		≡ Rows	⊟ Seller Coun

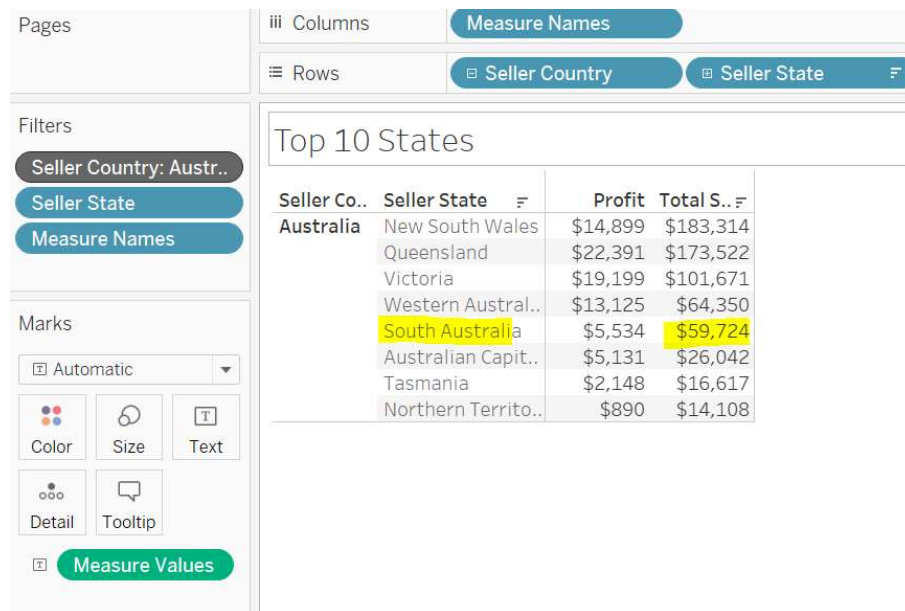| Filters	
Seller Coun	
Seller State	
Measure Na	

Edit Filter...

Show Filter
Show Highlighter
Clear Filter
Add to Context
Apply to Worksheets   ▸

▤ Sort...
⊘ Create Set...
● Dimension
  Attribute
  Measure   ▸

  Remove

Top 10 States

...ler State	
...w South Wales	$1
...eensland	$2
...toria	$1

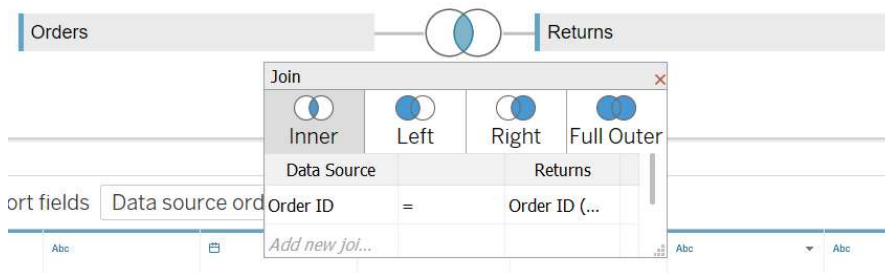Marks

⊡ Automatic

Color   Siz

Detail   Tool

⊡ Measu

South Australia is at 5th position on the basis of sum of sales

20. What is the difference between Measure Names and Measure Values?
    a. Measure Names are continuous whereas Measure Values are discrete.
    b. Measure Name contains the name of each measure where as Measure Value contains the value of each measure
    c. Measures Names are Tableau generated field where as Measure Values are user defined field.
    d. None of the above

21. How to save the workbook as a PDF?
    a. Go to Data Source, right click on the connection and select save to PDF
    b. Go to Worksheet, Click on export and select save as PDF
    c. Go to File, Click on Print to PDF
    d. None of the above

22. Connect to the "Sample - Superstore" data source and find out how many items were returned in Furniture category?
    a. 473
    b. 171
    c. 1271
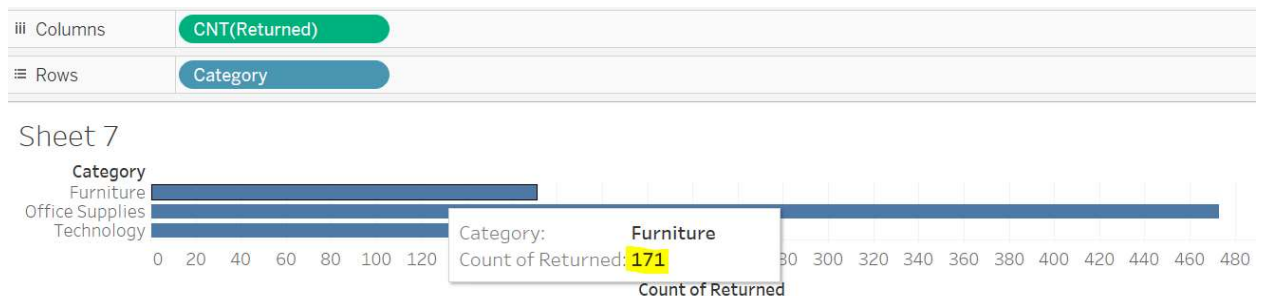   d. 872

Create an inner join between Orders and Returns table

Orders is made of 2 tables. ⓘ

Orders ———————◯◯——————— Returns

Join   ✕
    ◯◯   ◉◯   ◯◉   ◉◉
  Inner   Left   Right   Full Outer
  Data Source   Returns
ort fields   Data source ord Order ID   =   Order ID (...
                              Add new joi...
   Abc   🗓

Drop the category to Rows. And Returned field to Columns, aggregate the returned field on the basis of the Count.

Pages		iii Columns	▾	Returned ▾
Filters		≡ Rows		Filter...
				Show Filter
		Sheet 7		Show Highlighter
		Ret F		Sort...
		Category		Format...
		Furniture		✓ Show Header
Marks		Office Supplies		✓ Include in Tooltip
		Technology		Edit Aliases...
▦ Automatic ▾				● Dimension
				Attribute
Color Size Text				Measure ▸ Minimum
				Edit in Shelf Maximum
Detail Tooltip				Count
				Remove Count (Distinct)

| iii Columns | CNT(Returned) |
| ≡ Rows | Category |

Sheet 7

Category
  Furniture
  Office Supplies
  Technology
    0 20 40 60 80 100 120   Category: Furniture   30 300 320 340 360 380 400 420 440 460 480
                                    Count of Returned: 171
                                         Count of Returned

171 items were returned in Furniture category.

23. Which of the following is not a Trend Line model?
    a. Linear
    b. Logarithmic
    c. Cluster
    d. Power

24. What happens when you drop a continuous measure in a view?
    a. It creates the label with disaggreagated values
    b. It creates the label and aggregate the values
    c. It creates an axis with disaggreagated values
    d. It creates an axis and aggregate the values

25. Which of the following are true regarding story points? (Select all that apply)
    a. A story point can contain multiple dashboards.
    b. A story point can contain multiple worksheets.
    c. A story point can contain either one worksheet or one dashboard.
    d. Changes made in the story point do not reflect back to the worksheet.

26. Connect to the "Sample - Superstore" data source and use Orders table. Create the dual axis chart to find out in which year profit is more than the sales recorded?
    a. 2016
    b. 2017
    c. 2018
    d. None of the above

Drop the Order Date to the Columns.
Drop Sales and Profit to the Rows. Create a dual-axis chart and Synchronize the axis.
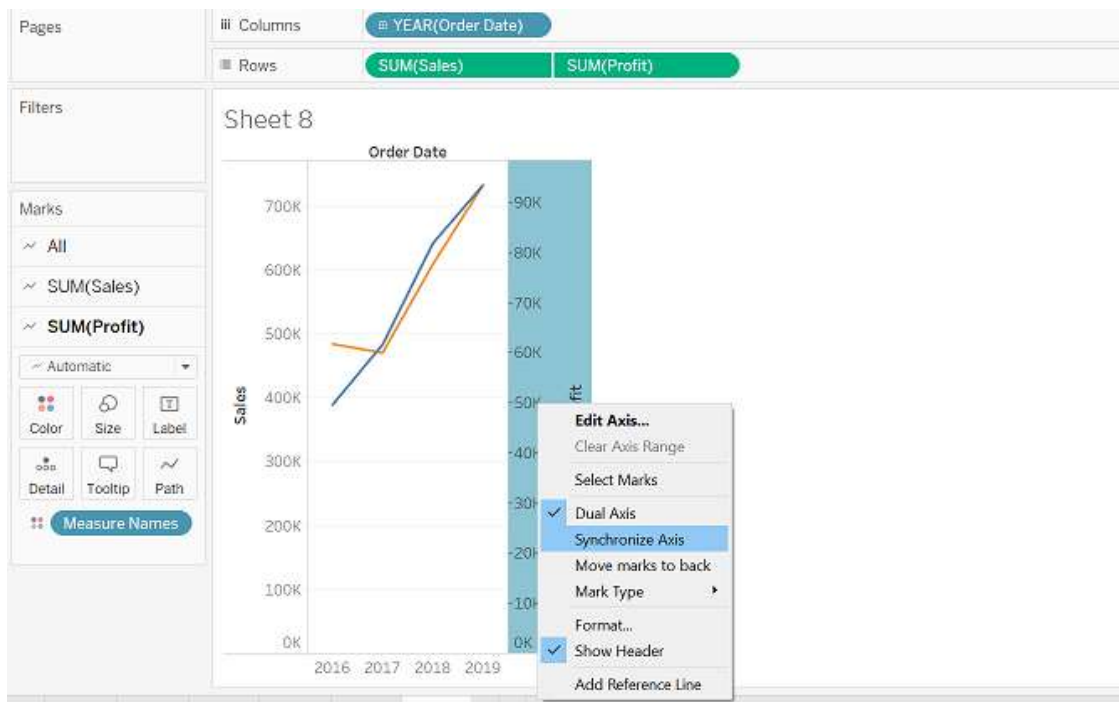
Profit is always lesser than sales, so None of the above is the correct answer.

27. How to add custom shapes in Tableau?
    a. Go to the Tableau folder in Program files and click on defaults folder and then click Shape folder and copy your custom image.
    b. Go to My Tableau Repository in the Documents folder and copy the custom image in Shapes folder.
    c. On the Marks card, click on the Shapes and then select More shapes and copy your custom image.
    d. It is not possible to add custom images in Tableau.

28. Where to positioned most important item in dashboard?
    a. Bottom Left
    b. Upper Right
    c. Upper Left
    d. Center

29. Which of the following are true regarding extracts? (Select all that apply)
    a. Can be accessed offline
    b. Uses Tableau Data Engine to perform queries
    c. Refresh automatically
    d. May include only subset of the data

30. Connect to the "tds_sample_data_all" data source and use table "Flights", and find out which carrier has cancelled maximum flights in the first quarter (Jan - Mar) of 2013?
    a. ExpressJet
    b. JetBlue
    c. Delta
    d. SkyWest

Drop the Carrier Name to the Columns, and Ontime Category to the Rows.
Drop Number of flights to the Text.
Drop the Date to the filter and Select range of dates.

Select the dates as:

Your view will look like this:

ExpressJet has cancelled maximum flights in the first quarter (Jan - Mar) of 2013.