### **Tableau Visualization Questions for a Work Orders Dashboard:**

1. Visualize the number of work orders by status (e.g., Open, Closed, In Progress).
   1. Solution: Create a bar chart filtering by status.
2. Display the trend of work orders over time.
   1. Solution: Use a line chart to show work orders count by month and year.
3. Compare the average resolution time for work orders by category.
   1. Solution: Create a box plot showing distribution of resolution times across different categories.
4. Identify the top 5 technicians by number of work orders completed.
   1. Solution: Use a bar chart sorted by the number of completed work orders.
5. Analyze the distribution of work orders by region or location.
   1. Solution: Utilize a map visualization to display counts or statuses by geographical area.
6. Examine work order volume during different times of the day.
   1. Solution: Create a histogram or heat map of work orders by hour of the day.
7. Measure customer satisfaction by analyzing feedback scores.
   1. Solution: Use an average score indicator per technician or per service type.
8. Show the correlation between cost and time taken to complete work orders.
   1. Solution: Construct a scatter plot comparing total cost versus time taken.
9. Investigate the frequency of work orders for different types of services.
   1. Solution: Use a pie chart to show the proportion of each service type.
10. Assess the impact of work order duration on subsequent customer ratings.
    1. Solution: Scatter plot analyzing duration against customer satisfaction ratings.
11. Highlight the areas with the highest number of recurring issues.
    1. Solution: Bar chart showing regions with repeat orders.
12. Display a ranking of services based on demand.
    1. Solution: Sorted bar chart of services by number of requests.
13. Visualize the average cost of work orders over time.
    1. Solution: Line chart of average costs per month.
14. Analyze the effect of seasonality on work order volume.
    1. Solution: Line chart comparing monthly totals year-over-year.
15. Profile work orders that exceed the expected resolution time.
    1. Solution: Use a Gantt chart to highlight delays.
16. Explore data through the creation of an interactive dashboard using action filters.
    1. Solution: Set up action filters to see details on demand when selecting specific elements.
17. Show detailed cost breakdowns by sub-category within services.
    1. Solution: Stacked bar chart with cost layers.
18. Monitor ongoing work orders in real-time.
    1. Solution: Use a live dashboard reflecting real-time data integration.
19. Create a performance dashboard for individual technicians.
    1. Solution: Multiple KPIs like number of orders, average rating, and average time per order.
20. Visualize the percentage of work orders completed on the first visit.
    1. Solution: Pie chart showing first-time resolution rates.
21. Determine the most common issues reported in work orders.
    1. Solution: Word cloud or tree map of issue types.
22. Compare workload and performance across different teams.
    1. Solution: Bar charts with split categories showing team-wise performance.
23. Visualize operational costs versus budget by department.
    1. Solution: Combined bar and line chart showing budget vs. expenses.
24. Analyze downtime by equipment or location.
    1. Solution: Heat map showing frequency and duration of downtime.
25. Forecast future work orders based on historical trends.
    1. Solution: Use Tableau’s forecasting capabilities to predict future work order volumes.