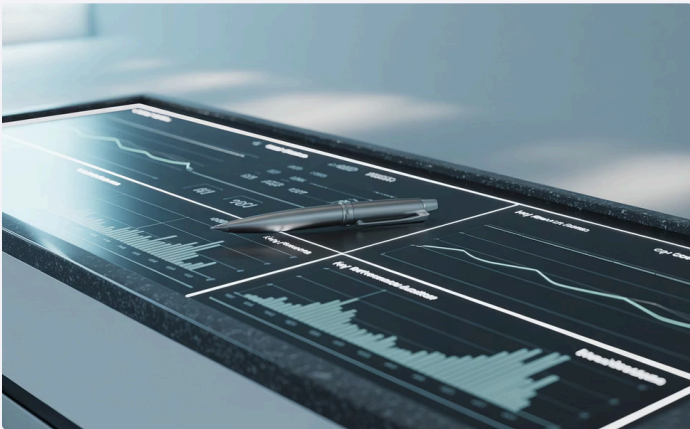




# Superstore Performance Analysis: Sales and Profit Insights

A comprehensive analysis of superstore operations across 9,994 transactions, revealing critical patterns in sales and profitability to guide strategic business decisions.

# Dataset Overview



## Comprehensive Dataset

9,994 entries across 21 columns including customer information, product details, and financial metrics

The wide ranges in sales, profit, and discount percentages indicate significant variability in transaction performance, suggesting opportunities for targeted optimization.



## Temporal Analysis

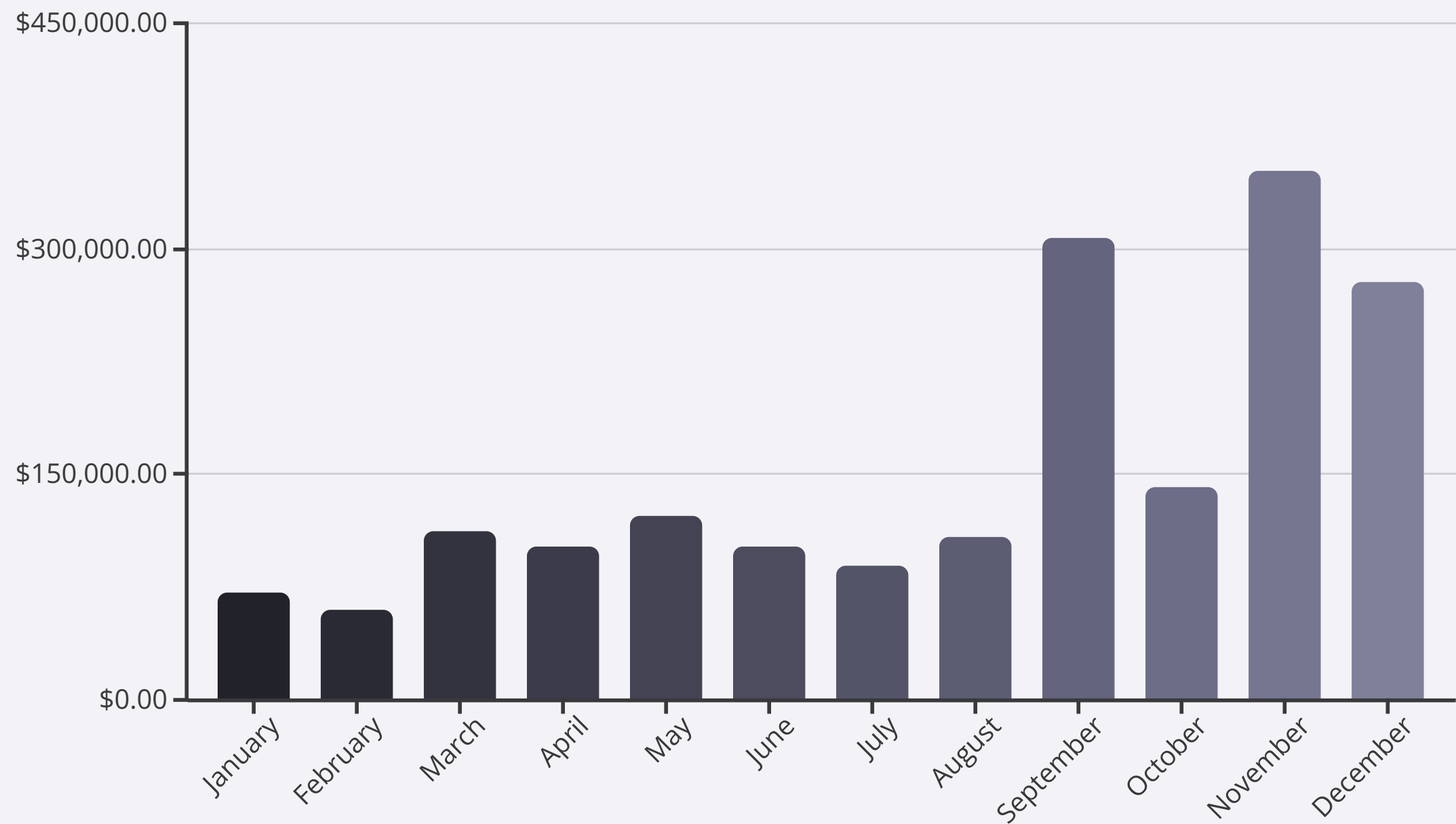
Data transformed to enable time-series analysis with added columns for year, month, and day of week



## Financial Range

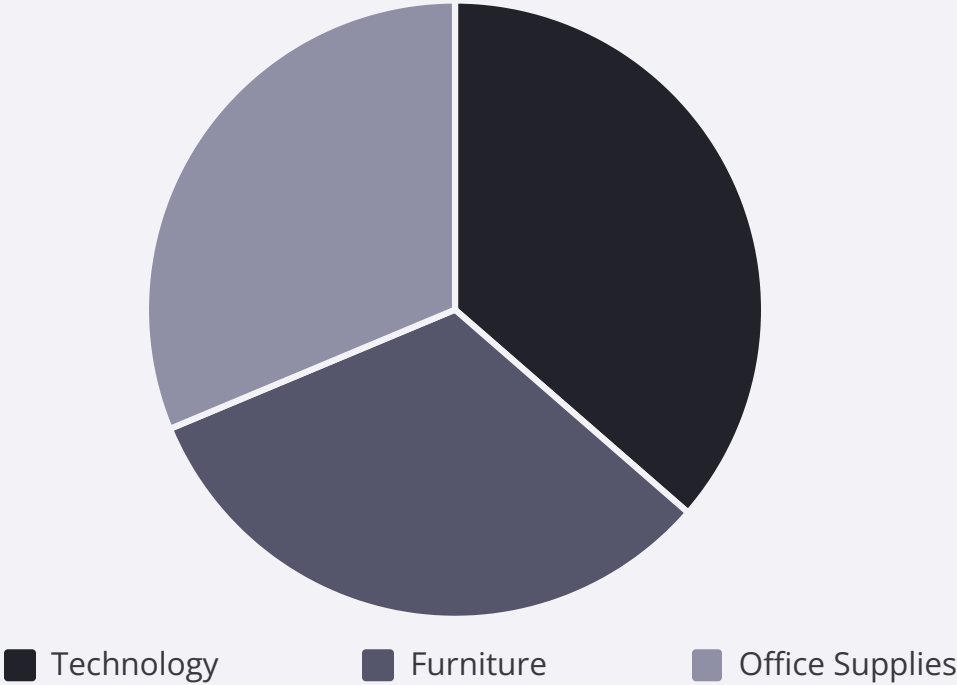
Average transaction: \$229.86  
Profit range: -\$6,599.98 to \$8,399.98  
Discount range: 0% to 80%

# Monthly Sales Performance



Sales exhibit a clear seasonal pattern with significant spikes in September (\$307,650) and November (\$352,461), indicating strong back-to-school and holiday shopping periods. Early months show consistently lower performance, with February recording the lowest sales at \$59,751.

# Product Category Performance



**\$145,455**

**Technology Profit**

Highest category profitability

**\$122,491**

**Office Supplies Profit**

Strong profit contributor

**\$18,451**

**Furniture Profit**

Concerning low profitability

While sales are relatively balanced across categories, profit distribution reveals significant disparities. Furniture generates substantial revenue but delivers minimal profit, indicating potential pricing or cost issues.



# Sub-Category Deep Dive

## Top Performers by Sales

- Phones: \$330,007
- Chairs: \$328,449
- Tables: \$206,966
- Binders: \$203,413

## Top Profit Generators

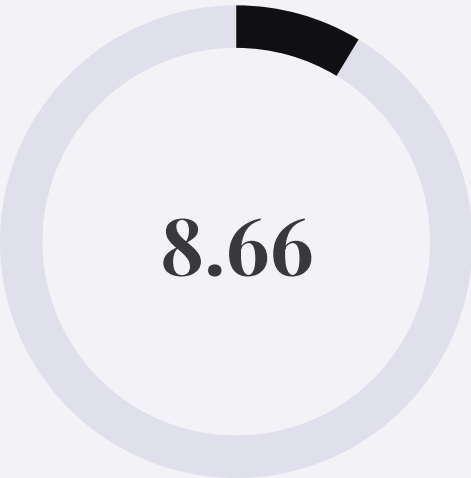
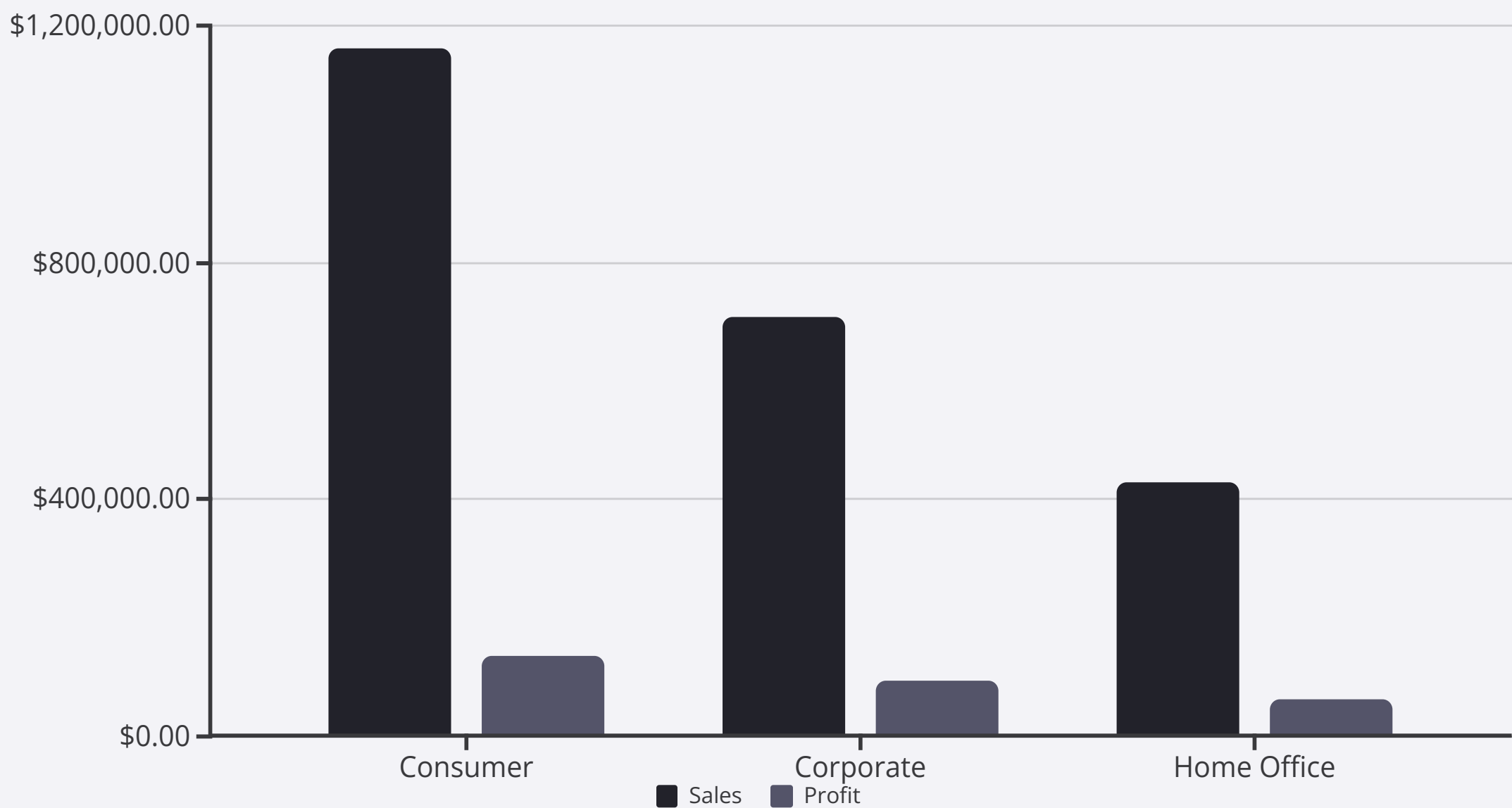
- Copiers: \$55,618
- Phones: \$44,516
- Accessories: \$41,937
- Paper: \$34,054

## Problem Areas (Losses)

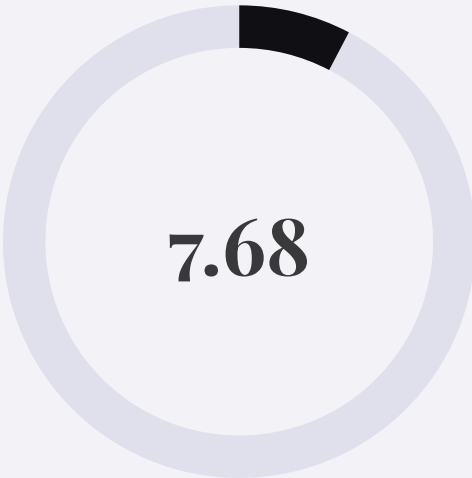
- Tables: -\$17,725
- Bookcases: -\$3,473
- Supplies: -\$1,189

The sub-category analysis reveals critical disconnects between sales and profitability. Tables, despite being the third-highest sales generator, represent the largest profit drain in the entire operation.

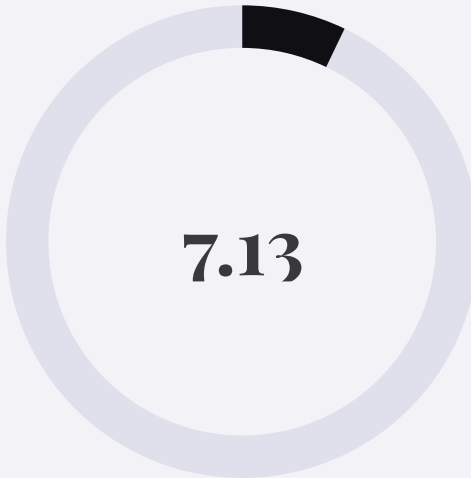
# Customer Segment Analysis



**Consumer**  
Sales-to-profit ratio



**Corporate**  
Sales-to-profit ratio



**Home Office**  
Sales-to-profit ratio

The Consumer segment drives the highest volume in both sales and profit, but Home Office transactions are the most efficient at converting sales to profit, requiring only \$7.13 in sales to generate \$1 in profit.





# Year-Over-Year Performance Trends



**2014**

Established baseline performance across all segments with Consumer segment already showing dominance



**2015-2016**

Consistent growth across all segments with proportional increases in both sales and profit



**2017**

Accelerated growth with all segments reaching their highest performance levels

The analysis shows a healthy business trajectory with consistent year-over-year growth across all customer segments from 2014 to 2017, indicating effective overall business strategy despite specific product category challenges.

# Critical Profit Challenges

## Furniture Category

Despite generating \$742,000 in sales (33% of total), furniture produces only \$18,451 in profit (6% of total profit)

## Tables Sub-Category

Critical concern: \$206,966 in sales but -\$17,725 in profit, representing the largest single drain on profitability

## Discount Impact

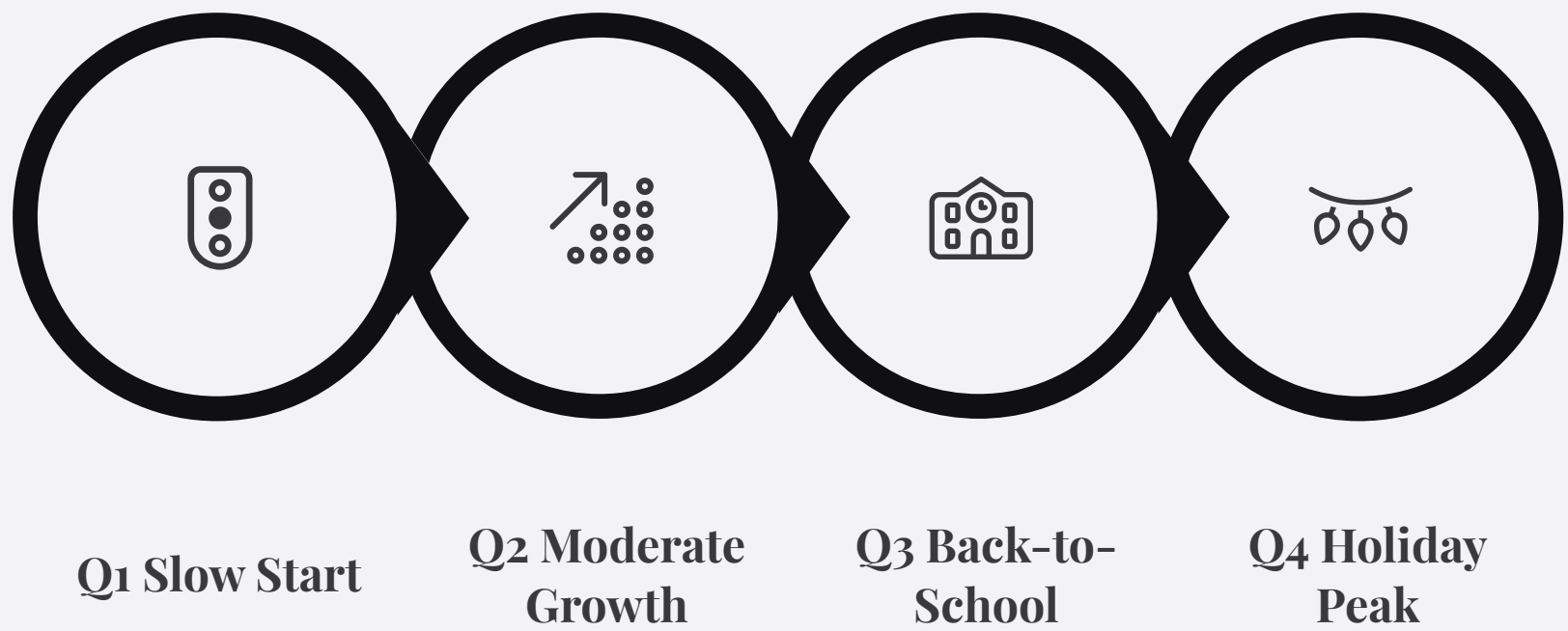
Discounts ranging from 0% to 80% likely contribute to profitability issues, especially in furniture items



The disconnect between sales volume and profitability in the furniture category suggests potential issues with pricing strategy, discount application, supplier costs, or all three factors.



# Seasonal Business Patterns



## Q4 Dominance

November, December, and September represent the three highest sales months, with November generating \$352,461 in revenue.

## Strategic Implications

Inventory planning, staffing, and marketing should be optimized to capitalize on Q3 and Q4 peak periods while developing strategies to boost Q1 performance.

# Key Takeaways & Recommendations

1

## Address Furniture Profitability Crisis

Conduct urgent review of Tables, Bookcases, and other furniture items. Consider pricing adjustments, supplier renegotiations, or product discontinuation for persistently unprofitable items.

2

## Leverage Technology Strength

Expand investment in the Technology category, particularly Copiers and Phones, which demonstrate exceptional profitability. Consider bundling these with other products to boost overall margins.

3

## Optimize Discount Strategy

Implement more structured discount guidelines, especially for Furniture items. Current discount range (0-80%) likely contributes to profit issues when applied inconsistently.

4

## Apply Home Office Efficiency Model

Study the Home Office segment's superior sales-to-profit ratio (7.13) and apply learned efficiencies to improve Consumer segment conversion (currently 8.66).

The superstore shows healthy overall growth but requires targeted interventions to address significant profitability challenges in specific product categories while capitalizing on demonstrated strengths.