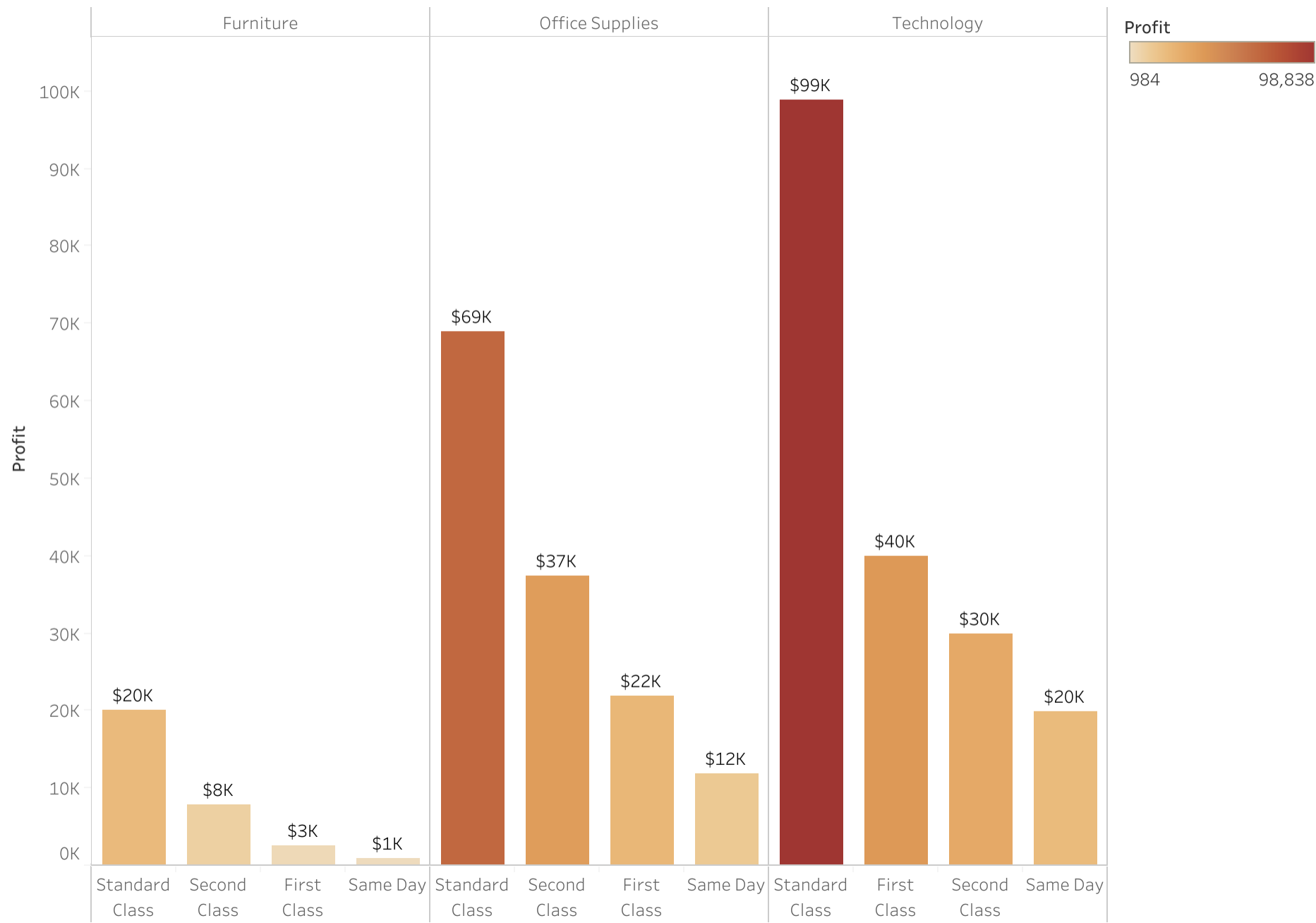


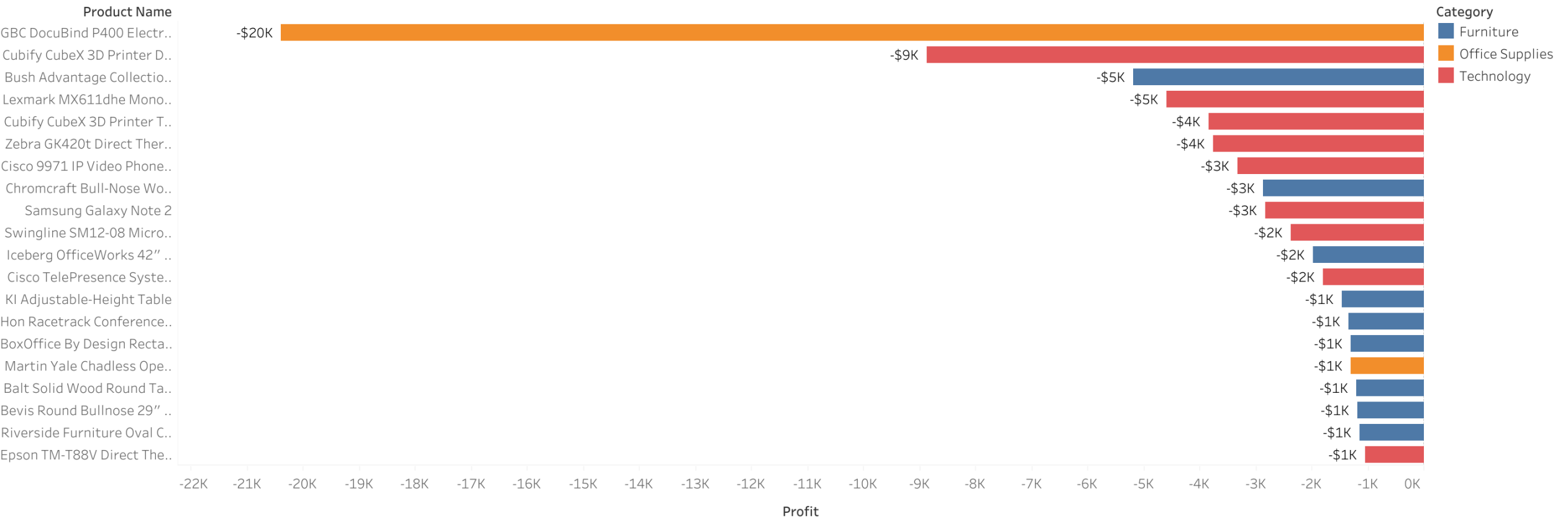
Project 4: Superstore Analysis

Carlos Gallegos

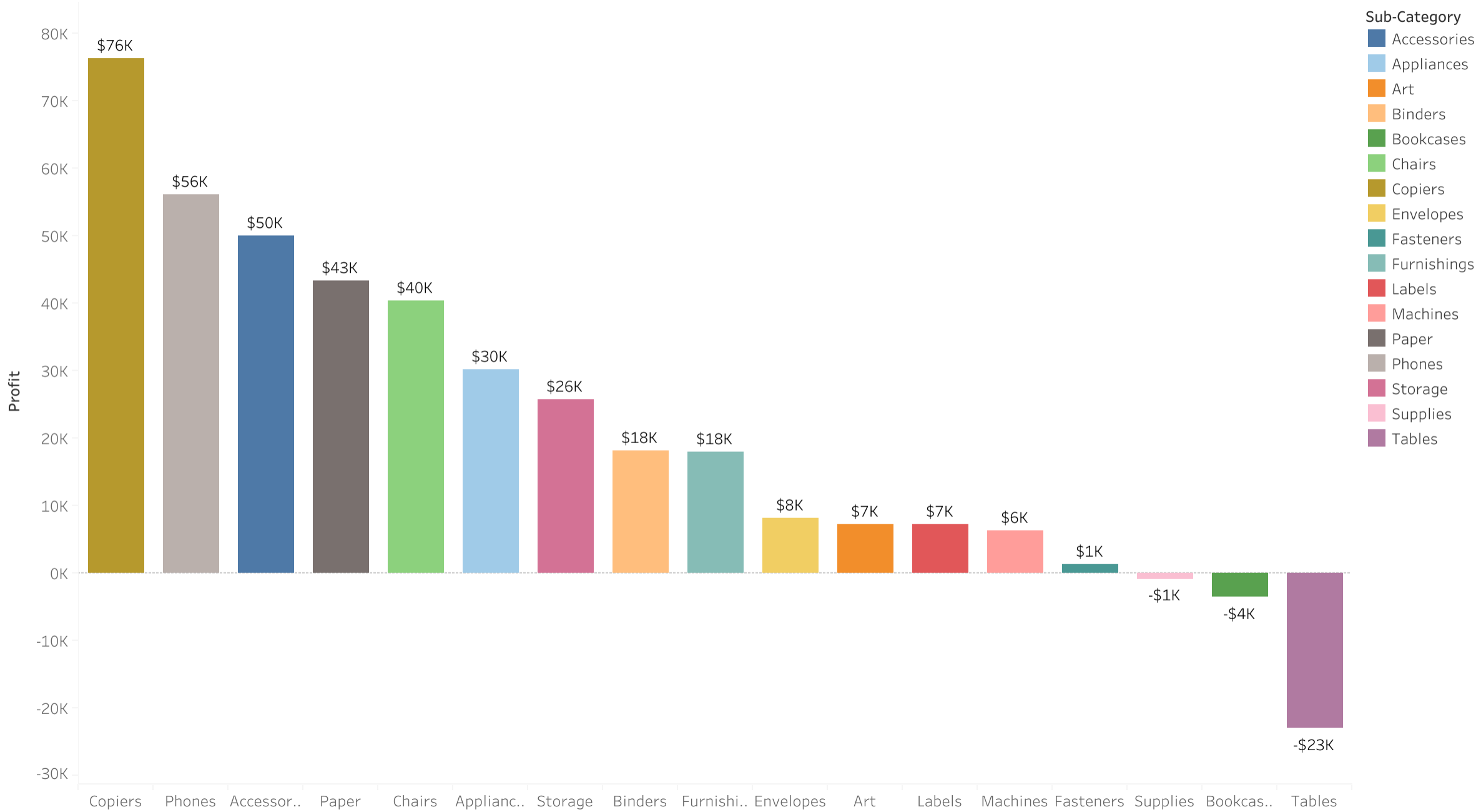
1.1 Profit by Category and Ship Mode



1.2 Products with the biggest losses

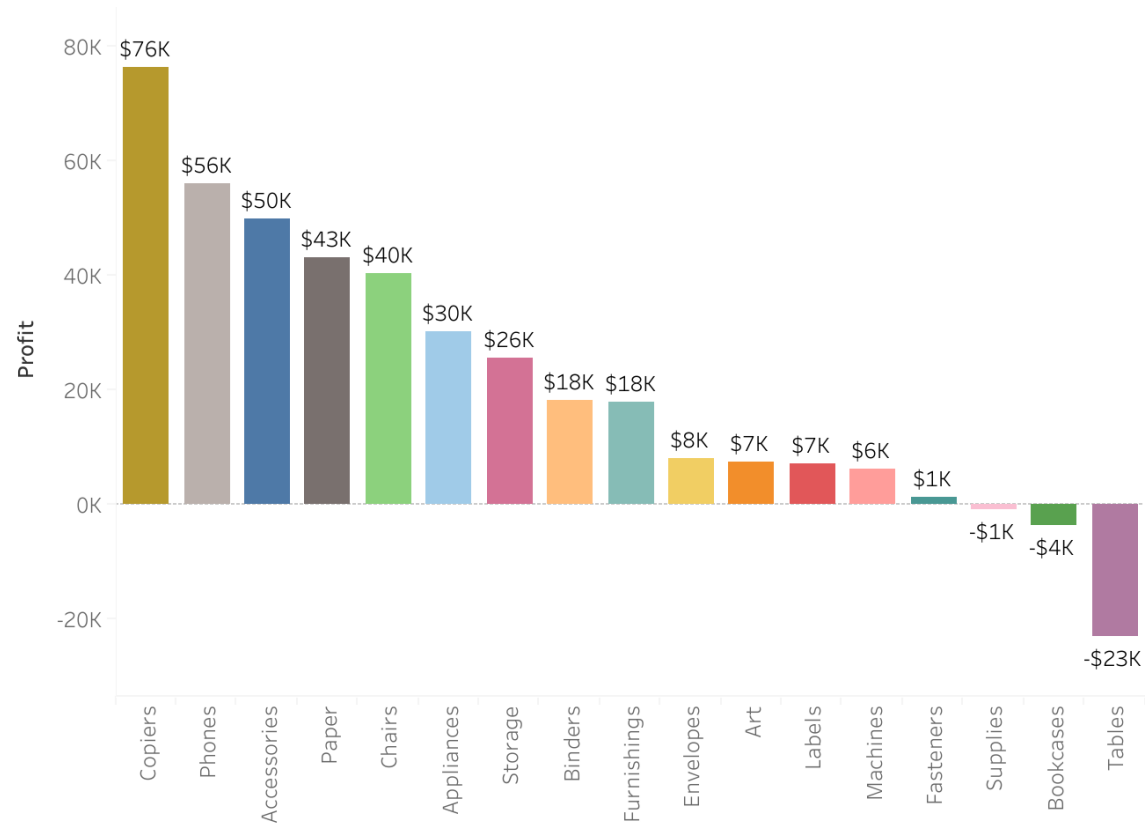


1.3 Profit by Sub-categories



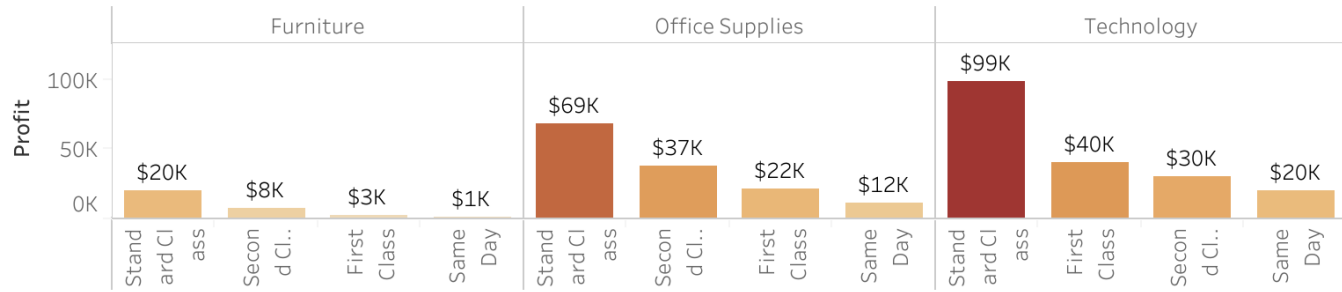
Part 1: Profits & Losses

1.3 Profit by Sub-categories



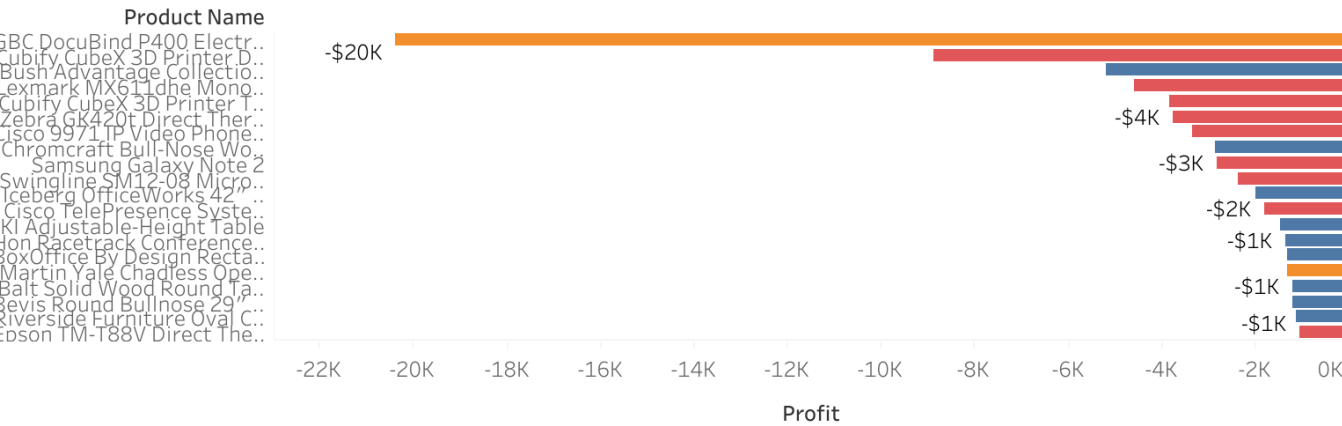
The top three subcategories from the superstore are copiers, phones, and accessories. The three lowest-performing subcategories are tables and bookcases and supplies.

1.1 Profit by Category and Ship Mode



Analyzing profits by category and shipping method, technology and office supplies are our most profitable categories. Customers prefer standard shipping for both categories...

1.2 Products with the biggest losses

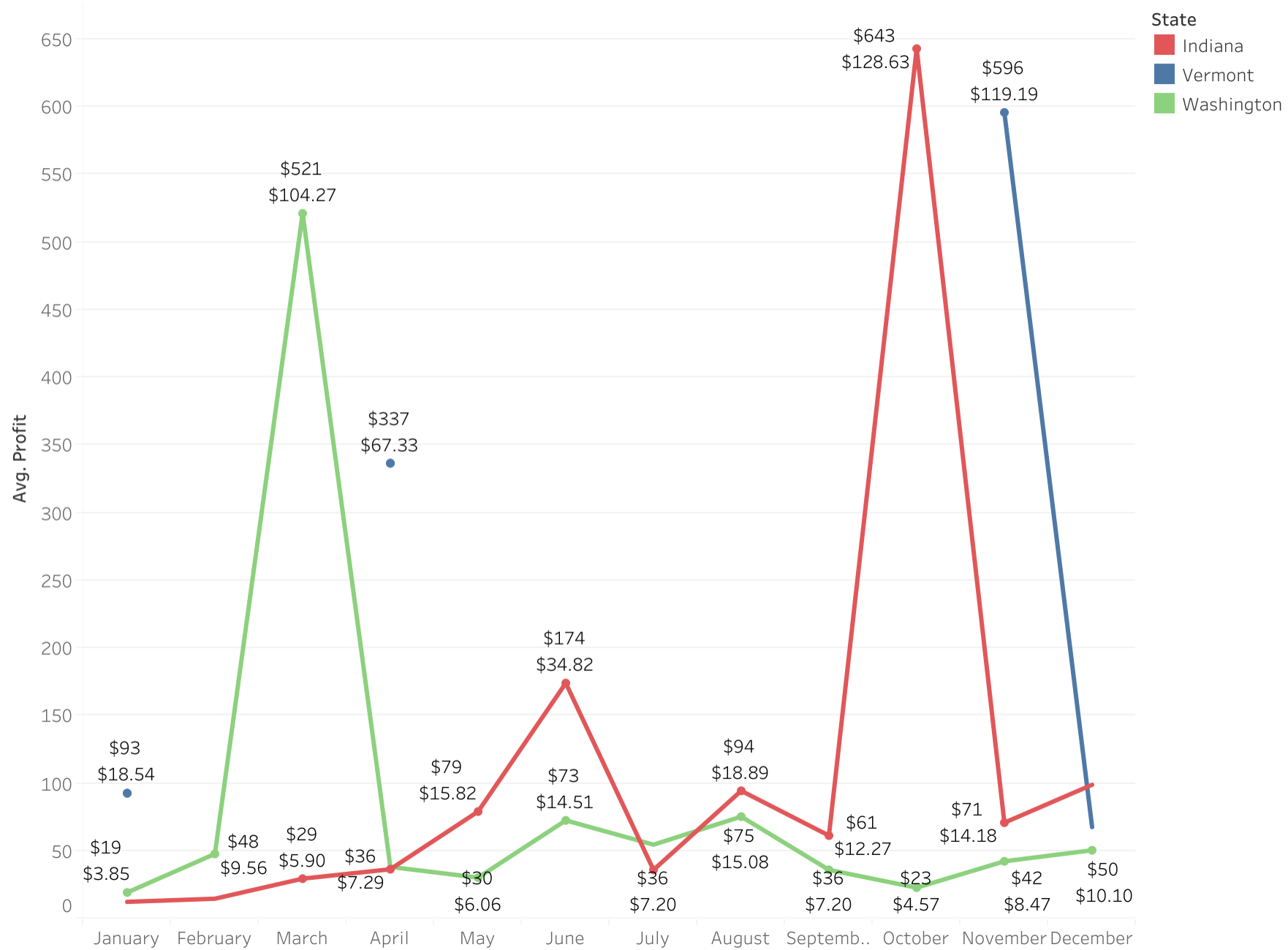


It is imperative to stop selling the top 20 products, as they are causing the biggest losses.

2.1 Average profit per month and state Table

State	January	February	March	April	May	June	July	August	Septemb..	October	November	December	Avg. Profit
Indiana	\$12	\$15	\$29	\$36	\$79	\$174	\$36	\$94	\$61	\$643	\$71	\$99	<div><div></div><div>\$12\$643</div></div>
	\$2	\$3	\$6	\$7	\$16	\$35	\$7	\$19	\$12	\$129	\$14	\$20	
Vermont	\$93			\$337							\$596	\$68	
	\$19			\$67							\$119	\$14	
Washington	\$19	\$48	\$521	\$38	\$30	\$73	\$55	\$75	\$36	\$23	\$42	\$50	
	\$4	\$10	\$104	\$8	\$6	\$15	\$11	\$15	\$7	\$5	\$8	\$10	

2.2 Average profit per month and state Chart



Part 2. Advertising

2.1 Average profit per month and state Table

State	January	February	March	April	May	June	July	August	Septemb..	October	November	December
Indiana	\$12	\$15	\$29	\$36	\$79	\$174	\$36	\$94	\$61	\$643	\$71	\$99
	\$2	\$3	\$6	\$7	\$16	\$35	\$7	\$19	\$12	\$129	\$14	\$20
Vermont	\$93			\$337						\$596		\$68
	\$19			\$67						\$119		\$14
Washington	\$19	\$48	\$521	\$38	\$30	\$73	\$55	\$75	\$36	\$23	\$42	\$50
	\$4	\$10	\$104	\$8	\$6	\$15	\$11	\$15	\$7	\$5	\$8	\$10

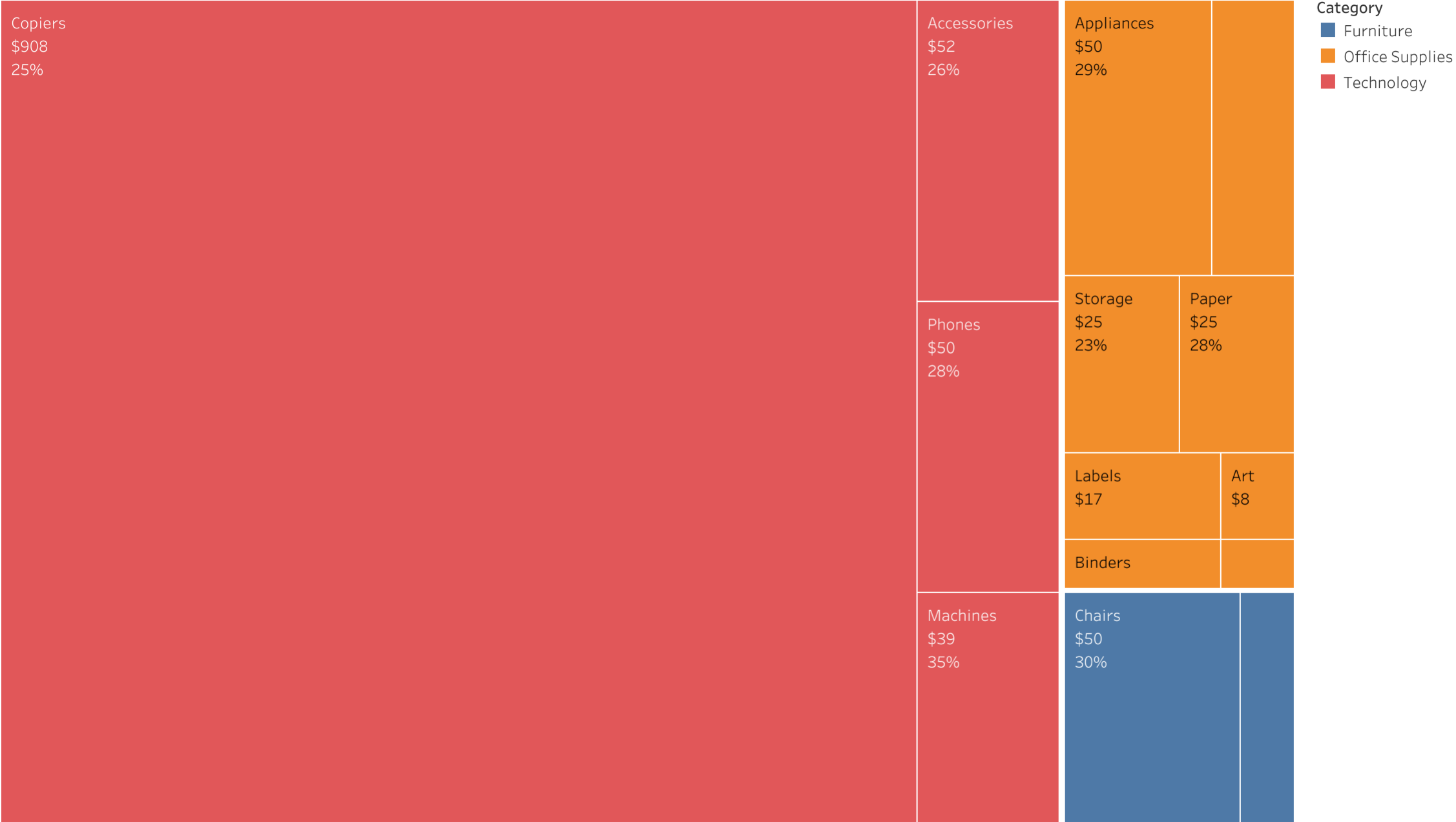
The budget for Advertising based on ROAS is as follows: \$129 for Indiana in October, \$119 for Vermont in November, and \$104 for Washington in March. This budget aligns with our willingness to allocate one-fifth of profits to advertising.

2.2 Average profit per month and state Chart





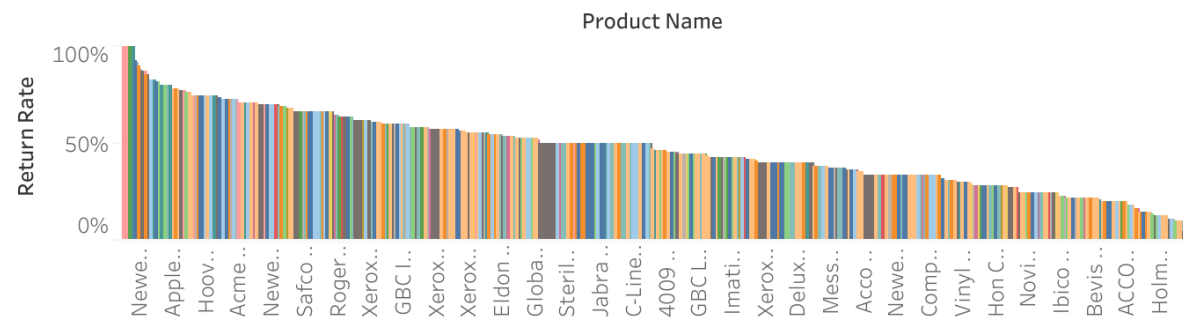
3.3 Average Profit & Average Return by Subcategory



Returned Items

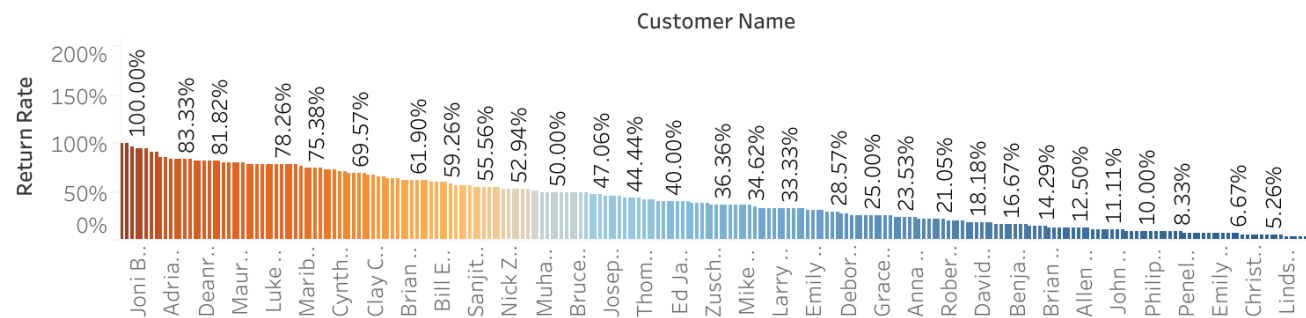
The Return rate by category is high on all the years. Specially on last year of analysis 2021

3.1 Return rate per product

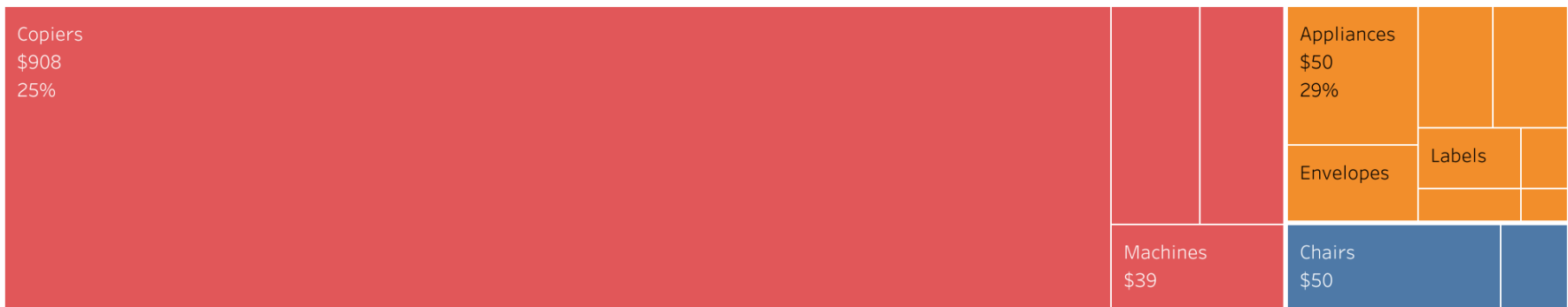


Eight products have a return rate of 100%, so we should consider their viability For products with a return rate above 25%, we should gather more information about customers' experiences with the supersto..

3.2 Return rate per customer



3.3 Average Profit & Average Return by Subcategory



If we analyze all years, the main sources of profit for the superstore coincide with high return rates, averaging over 25%. The superstore should either cease operations under these conditions or make changes based on the analysis of profits, losses, and advertising. Additionally, consider the suggestions from our assessment and establish a timeline for reevaluating the situation. The discounts applied to transactions could also be contributing to the current situation.