Concession Data Calculations (With Work Shown)

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**Transactional Data Cleaning Strategy**

Upon opening the Concession Data spreadsheet, I created a pivot table to show me all of the errors present in the data relating to typos in dates, items, and category names. My cleaning methods were as follows for each of these three classes of data:

1. Dates – I manually searched the data for any dates with typos and changed them to mesh with the current correct data. Dates such as 1/41/2022 were changed to 1/4/2022 to keep that data as its own separate date. Dates like 1.9.2022 and 1/7.2022 were edited to correctly display the date. The 3-Jan date was changed back to 1/3/2023 and then changed to 1/3/2022 as all transactions happened in January 2022, not any other year. Dates repeated multiple times in various areas of the dataset, yet I did not see any glaring duplicates, so all 200 data points were kept in the dataset.
2. Lines – Before continuing, I will state my definition for a line in this assignment and base all of my calculations on this definition. I define a “line” to be the category of food item listed in the dataset, like “Beverages” or “Hot Food.” With these lines, there were a few typos that created extra unneeded columns in my pivot table, so using the Find function (Ctrl + F) was crucial to quickly fix the typos to decrease the pivot table’s size to lit only the four lines available within the dataset: Beverages, Candy, Hot Food, and Frozen Treats.
3. Items – The actual food that was sold was also riddled with typos in the pivot table that was generated, so I approached cleaning this aspect of the dataset in the same way that I cleaned the lines. The Find Function was extremely helpful with this process.
4. Price – Most of the prices within the dataset were consistent, yet only a few outliers were either improperly formatted or had a price that did not match the correct price attached to the sale of that item. Once again, the Find function assisted in this endeavor by searching for the item name and matching the item name with the correct price.

Once the cleaning was complete, the pivot table was updated to see the clean data. Then I moved on to the item lookup table and edited it by adding two rows: Price of Goods and Profit. I did this so I could do my calculations much quicker by multiplying the profit per item and the number of that item sold on a given date to find the total profit for each item. The profit per item was calculated by subtracting the cost of goods from the price of goods. With that being said, we can now jump into the calculations.

**Calculation Breakdown**

Profit:

Variables are as follows:

P = Profit

TP = Total Profit

* 1. Calculate the profit per line in dollars

For this calculation, the COUNTIF function was used to see the total number of instances an item shows up in the dataset. A mathematical formula to capture the total number of items in the dataset based on the pivot table would be as follows: Sum of Sale Price / Price = Number of Items Sold. For simplification, I will be calculating the required answers using the values provided by the COUNTIF function. Keep in mind that this calculation is for total profit per line spanning all dates within the given dataset.

Line Variables = Beverages (B), Candy (C), Hot Food (HF), and Frozen Treats (FT)

Beverages: TP(B) = (Beer (20) x P (2)) + (Bottled Water (13) x P (2.5)) + (Soda (13) x P (1.5))) =

40 + 32.5 + 19.5 = **$92.00**

Candy: TP(C) = (Chocolate Bar (13) x P (1)) + (Gummy Bears (14) x P (0)) + (Licorice Rope (13) x P (1))) = 13 + 0 + 13 = **$26.00**

Hot Food: TP(HF) = (Hamburger (16) x P (1.5)) + (Hot Dog (15) x P (1)) + (Nachos (15) x P (0.5)) + (Pizza (17) x P (1)) + (Popcorn (16) x P (4.5))) = 24 + 15 + 7.5 + 17 + 72 = **$135.50**

Frozen Treats: TP(FT) = (Chocolate Dipped Cone (11) x P (2)) + (Ice Cream Sandwich (10) x P (1.5)) + (Popsicle (13) x P (2.5))) = 22 + 15 + 32.5 = **$69.50**

* 1. Calculate the profit per day in dollars

To calculate this value, the above formulas I have used for each line will be reused, with the number of items occurring being based on each individual date as opposed to all dates within the dataset.

* + - Date 1 (1/1/2022)

Beverages: TP(B) = (Beer (2) x P (2)) + (Bottled Water (1) x P (2.5)) + (Soda (2) x P (1.5))) =

4 + 2.5 + 3 = **$9.50**

Candy: TP(C) = (Chocolate Bar (0) x P (1)) + (Gummy Bears (1) x P (0)) + (Licorice Rope (1) x P (1))) = 0 + 0 + 1 = **$1.00**

Hot Food: TP(HF) = (Hamburger (1) x P (1.5)) + (Hot Dog (1) x P (1)) + (Nachos (1) x P (0.5)) + (Pizza (1) x P (1)) + (Popcorn (2) x P (4.5))) = 1.5 + 1 + 0.5 + 1 + 9 = **$13.00**

Frozen Treats: TP(FT) = (Chocolate Dipped Cone (1) x P (2)) + (Ice Cream Sandwich (0) x P (1.5)) + (Popsicle (1) x P (2.5))) = 2 + 0 + 2.5 = **$4.50**

**Date 1 Profit** = 9.5 + 1 + 13 + 4.5 = **$28.00**

* + - Date 2 (1/2/2022)

Beverages: TP(B) = (Beer (1) x P (2)) + (Bottled Water (3) x P (2.5)) + (Soda (5) x P (1.5))) =

2 + 7.5 + 7.5 = **$17.00**

Candy: TP(C) = (Chocolate Bar (6) x P (1)) + (Gummy Bears (2) x P (0)) + (Licorice Rope (1) x P (1))) = 6 + 0 + 1 = **$7.00**

Hot Food: TP(HF) = (Hamburger (3) x P (1.5)) + (Hot Dog (2) x P (1)) + (Nachos (2) x P (0.5)) + (Pizza (2) x P (1)) + (Popcorn (2) x P (4.5))) = 4.5 + 2 + 1 + 2 + 9 = **$18.50**

Frozen Treats: TP(FT) = (Chocolate Dipped Cone (4) x P (2)) + (Ice Cream Sandwich (0) x P (1.5)) + (Popsicle (2) x P (2.5))) = 8 + 0 + 5 = **$13.00**

**Date 2 Profit** = 17 + 7 + 18.5 + 13 = **$55.50**

* + - Date 3 (1/3/2022)

Beverages: TP(B) = (Beer (1) x P (2)) + (Bottled Water (0) x P (2.5)) + (Soda (0) x P (1.5))) =

2 + 0 + 0 = **$2.00**

Candy: TP(C) = (Chocolate Bar (1) x P (1)) + (Gummy Bears (1) x P (0)) + (Licorice Rope (0) x P (1))) = 1 + 0 + 0 = **$1.00**

Hot Food: TP(HF) = (Hamburger (2) x P (1.5)) + (Hot Dog (2) x P (1)) + (Nachos (3) x P (0.5)) + (Pizza (2) x P (1)) + (Popcorn (0) x P (4.5))) = 3 + 2 + 1.5 + 2 + 0 = **$8.50**

Frozen Treats: TP(FT) = (Chocolate Dipped Cone (1) x P (2)) + (Ice Cream Sandwich (0) x P (1.5)) + (Popsicle (2) x P (2.5))) = 2 + 0 + 5 = **$7.00**

**Date 3 Profit** = 2 + 1 + 8.5 + 7 = **$18.50**

* + - Date 4 (1/4/2022)

Beverages: TP(B) = (Beer (4) x P (2)) + (Bottled Water (0) x P (2.5)) + (Soda (0) x P (1.5))) =

4 + 0 + 0 = **$8.00**

Candy: TP(C) = (Chocolate Bar (0) x P (1)) + (Gummy Bears (0) x P (0)) + (Licorice Rope (3) x P (1))) = 0 + 0 + 3 = **$3.00**

Hot Food: TP(HF) = (Hamburger (1) x P (1.5)) + (Hot Dog (3) x P (1)) + (Nachos (3) x P (0.5)) + (Pizza (0) x P (1)) + (Popcorn (0) x P (4.5))) = 1.5 + 3 + 1.5 + 0 + 0 = **$6.00**

Frozen Treats: TP(FT) = (Chocolate Dipped Cone (0) x P (2)) + (Ice Cream Sandwich (0) x P (1.5)) + (Popsicle (1) x P (2.5))) = 0 + 0 + 2.5 = **$2.50**

**Date 4 Profit** = 8 + 3 + 6 + 2.5 = **$19.50**

* + - Date 5 (1/6/2022)

Beverages: TP(B) = (Beer (4) x P (2)) + (Bottled Water (2) x P (2.5)) + (Soda (2) x P (1.5))) =

8 + 5 + 3 = **$16.00**

Candy: TP(C) = (Chocolate Bar (2) x P (1)) + (Gummy Bears (2) x P (0)) + (Licorice Rope (1) x P (1))) = 2 + 0 + 1 = **$3.00**

Hot Food: TP(HF) = (Hamburger (4) x P (1.5)) + (Hot Dog (3) x P (1)) + (Nachos (3) x P (0.5)) + (Pizza (3) x P (1)) + (Popcorn (7) x P (4.5))) = 6 + 3 + 1.5 + 3 + 31.5 = **$45.00**

Frozen Treats: TP(FT) = (Chocolate Dipped Cone (2) x P (2)) + (Ice Cream Sandwich (1) x P (1.5)) + (Popsicle (4) x P (2.5))) = 4 + 1.5 + 10 = **$15.50**

**Date 5 Profit** = 16 + 3 + 45 + 15.5 = **$79.50**

* + - Date 6 (1/7/2022)

Beverages: TP(B) = (Beer (5) x P (2)) + (Bottled Water (1) x P (2.5)) + (Soda (1) x P (1.5))) =

10 + 2.5 + 1.5 = **$14.00**

Candy: TP(C) = (Chocolate Bar (2) x P (1)) + (Gummy Bears (4) x P (0)) + (Licorice Rope (4) x P (1))) = 2 + 0 + 4 = **$6.00**

Hot Food: TP(HF) = (Hamburger (1) x P (1.5)) + (Hot Dog (2) x P (1)) + (Nachos (3) x P (0.5)) + (Pizza (4) x P (1)) + (Popcorn (1) x P (4.5))) = 1.5 + 2 + 1.5 + 4 + 4.5 = **$13.50**

Frozen Treats: TP(FT) = (Chocolate Dipped Cone (3) x P (2)) + (Ice Cream Sandwich (4) x P (1.5)) + (Popsicle (1) x P (2.5))) = 6 + 6 + 2.5 = **$14.50**

**Date 6 Profit** = 14 + 6 + 13.5 + 14.5 = **$48.00**

* + - Date 7 (1/8/2022)

Beverages: TP(B) = (Beer (3) x P (2)) + (Bottled Water (2) x P (2.5)) + (Soda (2) x P (1.5))) =

6 + 5 + 3 = **$14.00**

Candy: TP(C) = (Chocolate Bar (2) x P (1)) + (Gummy Bears (3) x P (0)) + (Licorice Rope (2) x P (1))) = 2 + 0 + 2 = **$4.00**

Hot Food: TP(HF) = (Hamburger (3) x P (1.5)) + (Hot Dog (1) x P (1)) + (Nachos (0) x P (0.5)) + (Pizza (2) x P (1)) + (Popcorn (1) x P (4.5))) = 4.5 + 1 + 0 + 2 + 4.5 = **$12.00**

Frozen Treats: TP(FT) = (Chocolate Dipped Cone (0) x P (2)) + (Ice Cream Sandwich (2) x P (1.5)) + (Popsicle (2) x P (2.5))) = 0 + 3 + 5 = **$8.00**

**Date 7 Profit** = 14 + 4 + 12 + 8 = **$38.00**

* + - Date 8 (1/9/2022)

Beverages: TP(B) = (Beer (0) x P (2)) + (Bottled Water (4) x P (2.5)) + (Soda (1) x P (1.5))) =

0 + 10 + 1.5 = **$11.50**

Candy: TP(C) = (Chocolate Bar (0) x P (1)) + (Gummy Bears (1) x P (0)) + (Licorice Rope (1) x P (1))) = 0 + 0 + 1 = **$1.00**

Hot Food: TP(HF) = (Hamburger (1) x P (1.5)) + (Hot Dog (1) x P (1)) + (Nachos (0) x P (0.5)) + (Pizza (3) x P (1)) + (Popcorn (3) x P (4.5))) = 1.5 + 1 + 0 + 3 + 13.5 = **$19.00**

Frozen Treats: TP(FT) = (Chocolate Dipped Cone (0) x P (2)) + (Ice Cream Sandwich (3) x P (1.5)) + (Popsicle (0) x P (2.5))) = 0 + 4.5 + 0 = **$4.50**

**Date 8 Profit** = 11.5 + 1 + 19 + 4.5 = **$36.00**

* 1. Calculate the profit in total (all sales) in dollars

Calculating this answer is simple now that the tedious work has been done above. We simply take either the four line values from the first calculation or the date values from the second calculation and add them together with both equations outputting the same answer, which is the total sales profit for all lines during all dates.

Equation 1: B (92) + C (26) + HF (135.5) + FT (69.5) = **$323.00**

Equation 2: Date 1 (28) + Date 2 (55.5) + Date 3 (18.5) + Date 4 (19.5) + Date 5 (79.5) + Date 6 (48) + Date 7 (38) + Date 8 (36) = **$323.00**

* 1. Identify which items were most profitable, which were least profitable (where you didn't make any money!), and which (if any) broke even in dollars

These items can be identified by looking at the pivot table that observes total item sales in the entire dataset. Using the lookup table as well, we can multiply the number of items by the cost of goods sold, and then take that number and subtract it from the item’s total revenue found on the pivot table. However, since I have already calculated the profit generated from the sale of one of each individual item and updated the lookup table to reflect those profits, an easier equation using those values and the total number of items sold will be what I will demonstrate. These equations were also performed in the first calculation, so this will be a reiteration. Each item’s profit is as follows:

Number of Items x Singular Item Profit = Total Item Profit

Beer: 20 x 2 = **$40.00**

Bottled Water: 13 x 2.5 = **$32.50**

Soda: 13 x 1.5 = **$19.50**

Chocolate Bar: 13 x 1 = **$13.00**

Gummy Bears: 14 x 0 = **$0.00**

Licorice Rope: 13 x 1 = **$13.00**

Hamburger: 16 x 1.5 = **$24.00**

Hot Dog: 15 x 1 = **$15.00**

Nachos: 15 x 0.5 = **$7.50**

Pizza: 17 x 1 = **$17.00**

Popcorn: 16 x 4.5 = **$72.00**

Chocolate Dipped Cone: 11 x 2 = **$22.00**

Ice Cream Sandwich: 10 x 1.5 = **$15.00**

Popsicle: 13 x 2.5 = **$32.50**

Looking at these figures, the data shows us that gummy bears are not profitable at all to sell as the cost to buy gummy bears is the same as the revenue generated by their sale. This could also be considered breaking even from a purely theoretical point of view, yet if one were to think of all of the other expenses incurred by concession stands trying to advertise to their guests and the overhead costs generated by running these stands, gummy bears would do well to be replaced by a more profitable item. The most profitable item out of them all is popcorn, with a 95% profit margin and the most profit in dollars within the dataset. Popcorn sales should definitely be prioritized over any other item on this list.

Total Calories:

* 1. Calculate the total calories per line (Hint: should just match the calories from the lookup table, this isn't a trick)

This calculation can be achieved by multiplying the number of items sold in a line by the calorie count of one of those items, then adding the item calorie counts in each line to each other to glean each line’s total calorie count. For the sake of time in reiterating the same reasoning, I will simply write the necessary equations with no further explanations.

Beverages Calories = (Beer (20) x Cal (200)) + (Bottled Water (13) x Cal (0)) + (Soda (13) x Cal (120))) = 4000 + 0 + 1560 = **5560 Calories**

Candy Calories = (Chocolate Bar (13) x Cal (255)) + (Gummy Bears (14) x Cal (300)) + (Licorice Rope (13) x Cal (280))) = 3315 + 4200 + 3640 = **11155 Calories**

Hot Food Calories = (Hamburger (16) x Cal (320)) + (Hot Dog (15) x Cal (265)) + (Nachos (15) x Cal (560)) + (Pizza (17) x Cal (480)) + (Popcorn (16) x Cal (500))) = 5120 + 3975 + 8400 + 8160 + 8000 = **33655 Calories**

Frozen Treats Calories = (Chocolate Dipped Cone (11) x Cal (300)) + (Ice Cream Sandwich (10) x Cal (240)) + (Popsicle (13) x Cal (150))) = 3300 + 2400 + 1950 = **7650 Calories**

* 1. Calculate the total calories per day

This calculation will also reiterate the same explanation given for the total profit per day, so no explanation is needed except for calories being used in place of profit.

* + - Date 1 (1/1/2022)

Beverages Calories = (Beer (2) x Cal (200)) + (Bottled Water (1) x Cal (0)) + (Soda (2) x Cal (120))) = 400 + 0 + 240 = **640 calories**

Candy Calories = (Chocolate Bar (0) x Cal (255)) + (Gummy Bears (1) x Cal (300)) + (Licorice Rope (1) x Cal (280))) = 0 + 300 + 280 = **580 calories**

Hot Food Calories = (Hamburger (1) x Cal (320)) + (Hot Dog (1) x Cal (265)) + (Nachos (1) x Cal (560)) + (Pizza (1) x Cal (480)) + (Popcorn (2) x Cal (500))) = 320 + 265 + 560 + 480 + 1000 = **2625 calories**

Frozen Treats Calories = (Chocolate Dipped Cone (1) x Cal (300)) + (Ice Cream Sandwich (0) x Cal (240)) + (Popsicle (1) x Cal (150))) = 300 + 0 + 150 = **450 calories**

**Date 1 Calories** = 640 + 580 + 2625 + 450 = **4295**

* + - Date 2 (1/2/2022)

Beverages Calories = (Beer (1) x Cal (200)) + (Bottled Water (3) x Cal (0)) + (Soda (5) x Cal (120))) = 200 + 0 + 600 = **800 calories**

Candy Calories = (Chocolate Bar (6) x Cal (255)) + (Gummy Bears (2) x Cal (300)) + (Licorice Rope (1) x Cal (280))) = 1530 + 600 + 280 = **2410 calories**

Hot Food Calories = (Hamburger (3) x Cal (320)) + (Hot Dog (2) x Cal (265)) + (Nachos (2) x Cal (560)) + (Pizza (2) x Cal (480)) + (Popcorn (2) x Cal (500))) = 960 + 530 + 1120 + 960 + 1000 = **4570 calories**

Frozen Treats Calories = (Chocolate Dipped Cone (4) x Cal (300)) + (Ice Cream Sandwich (0) x Cal (240)) + (Popsicle (2) x Cal (150))) = 1200 + 0 + 300 = **1500 calories**

**Date 2 Calories** = 800 + 2410 + 4570 + 1500 = **9280**

* + - Date 3 (1/3/2022)

Beverages Calories = (Beer (1) x Cal (200)) + (Bottled Water (0) x Cal (0)) + (Soda (0) x Cal (120))) = 200 + 0 + 0 = **200 calories**

Candy: Calories = (Chocolate Bar (1) x Cal (255)) + (Gummy Bears (1) x Cal (300)) + (Licorice Rope (0) x Cal (280))) = 255 + 300 + 0 = **555 calories**

Hot Food Calories = (Hamburger (2) x Cal (320)) + (Hot Dog (2) x Cal (265)) + (Nachos (3) x Cal (560)) + (Pizza (2) x Cal (480)) + (Popcorn (0) x Cal (500))) = 640 + 530 + 1680 + 960 + 0 = **3810 calories**

Frozen Treats Calories = (Chocolate Dipped Cone (1) x Cal (300)) + (Ice Cream Sandwich (0) x Cal (240)) + (Popsicle (2) x Cal (150))) = 300 + 0 + 300 = **600 calories**

**Date 3 Calories** = 200 + 555 + 3810 + 600 = **5165**

* + - Date 4 (1/4/2022)

Beverages Calories = (Beer (4) x Cal (200)) + (Bottled Water (0) x Cal (0)) + (Soda (0) x Cal (120))) = 800 + 0 + 0 = **800 calories**

Candy Calories = (Chocolate Bar (0) x Cal (255)) + (Gummy Bears (0) x Cal (300)) + (Licorice Rope (3) x Cal (280))) = 0 + 0 + 840 = **840 calories**

Hot Food Calories = (Hamburger (1) x Cal (320)) + (Hot Dog (3) x Cal (265)) + (Nachos (3) x Cal (560)) + (Pizza (0) x Cal (480)) + (Popcorn (0) x Cal (500))) = 320 + 795 + 1680 + 0 + 0 = **2795 calories**

Frozen Treats Calories = (Chocolate Dipped Cone (0) x Cal (300)) + (Ice Cream Sandwich (0) x Cal (240)) + (Popsicle (1) x Cal (150))) = 0 + 0 + 150 = **150 calories**

**Date 4 Calories** = 800 + 840 + 2795 + 150 = **4585**

* + - Date 5 (1/6/2022)

Beverages Calories = (Beer (4) x Cal (200)) + (Bottled Water (2) x Cal (0)) + (Soda (2) x Cal (120))) = 800 + 0 + 240 = **1040 calories**

Candy Calories = (Chocolate Bar (2) x Cal (255)) + (Gummy Bears (2) x Cal (300)) + (Licorice Rope (1) x Cal (280))) = 510 + 600 + 280 = **1390 calories**

Hot Food Calories = (Hamburger (4) x Cal (320)) + (Hot Dog (3) x Cal (265)) + (Nachos (3) x Cal (560)) + (Pizza (3) x Cal (480)) + (Popcorn (7) x Cal (500))) = 1280 + 795 + 1680 + 1440 + 3500 = **8695 calories**

Frozen Treats Calories = (Chocolate Dipped Cone (2) x Cal (300)) + (Ice Cream Sandwich (1) x Cal (240)) + (Popsicle (4) x Cal (150))) = 600 + 240 + 600 = **1440 calories**

**Date 5 Calories** = 1040 + 1390 + 8695 + 1440 = **12565**

* + - Date 6 (1/7/2022)

Beverages Calories = (Beer (5) x Cal (200)) + (Bottled Water (1) x Cal (0)) + (Soda (1) x Cal (120))) = 1000 + 0 + 120 = **1120 calories**

Candy Calories = (Chocolate Bar (2) x Cal (255)) + (Gummy Bears (4) x Cal (300)) + (Licorice Rope (4) x Cal (280))) = 510 + 1200 + 1120 = **2830 calories**

Hot Food Calories = (Hamburger (1) x Cal (320)) + (Hot Dog (2) x Cal (265)) + (Nachos (3) x Cal (560)) + (Pizza (4) x Cal (480)) + (Popcorn (1) x Cal (500))) = 320 + 530 + 1680 + 1920 + 500 = **4950 calories**

Frozen Treats Calories = (Chocolate Dipped Cone (3) x Cal (300)) + (Ice Cream Sandwich (4) x Cal (240)) + (Popsicle (1) x Cal (150))) = 900 + 960 + 150 = **2010 calories**

**Date 6 Calories** = 1120 + 2830 + 4950 + 2010 = **10910**

* + - Date 7 (1/8/2022)

Beverages Calories = (Beer (3) x Cal (200)) + (Bottled Water (2) x Cal (0)) + (Soda (2) x Cal (120))) = 600 + 0 + 240 = **840 calories**

Candy Cal = (Chocolate Bar (2) x Cal (255)) + (Gummy Bears (3) x Cal (300)) + (Licorice Rope (2) x Cal (280))) = 510 + 900 + 560 = **1970 calories**

Hot Food Calories = (Hamburger (3) x Cal (320)) + (Hot Dog (1) x Cal (265)) + (Nachos (0) x Cal (560)) + (Pizza (2) x Cal (480)) + (Popcorn (1) x Cal (500))) = 960 + 265 + 0 + 960 + 500 = **2685 calories**

Frozen Treats Calories = (Chocolate Dipped Cone (0) x Cal (300)) + (Ice Cream Sandwich (2) x Cal (240)) + (Popsicle (2) x Cal (150))) = 0 + 480 + 300 = **780 calories**

**Date 7 Calories** = 840 + 1970 + 2685 + 780 = **6275**

* + - Date 8 (1/9/2022)

Beverages Calories = (Beer (0) x Cal (200)) + (Bottled Water (4) x Cal (0)) + (Soda (1) x Cal (120))) = 0 + 0 + 120 = **120 calories**

Candy Calories = (Chocolate Bar (0) x Cal (255)) + (Gummy Bears (1) x Cal (300)) + (Licorice Rope (1) x Cal (280))) = 0 + 300 + 280 = **580 calories**

Hot Food Calories = (Hamburger (1) x Cal (320)) + (Hot Dog (1) x Cal (265)) + (Nachos (0) x Cal (560)) + (Pizza (3) x Cal (480)) + (Popcorn (3) x Cal (500))) = 320 + 265 + 0 + 1440 + 1500 = **3525 calories**

Frozen Treats Calories = (Chocolate Dipped Cone (0) x Cal (300)) + (Ice Cream Sandwich (3) x Cal (240)) + (Popsicle (0) x Cal (150))) = 0 + 720 + 0 = **720 calories**

**Date 8 Calories** = 120 + 580 + 3525 + 720 = **4945**

* 1. Calculate the total calories in total (all sales)

This total is generated by adding all line calorie totals or by adding calorie totals for each day.

Equation 1: B (5560) + C (11155) + HF (33655) + FT (7650) = **58020 calories**

Equation 2: Date 1 (4295) + Date 2 (9280) + Date 3 (5165) + Date 4 (4585) + Date 5 (12565) + Date 6 (10910) + Date 7 (6275) + Date 8 (4945) = **58020 calories**

* 1. Identify which days had the most caloric content sold and which had the least.

This metric can be directly taken from the calculations made in the second calorie calculations prompt.

Date 5 had the most caloric content sold with 12565 calories, while Date 1 had the least caloric content, with 4295 calories sold.