special	# sold	cost	#sold*cost
Yummy Burger	17	$1.99	$33.83
Baby Burger	18	$1.49	$26.82
Porker Burger	19	$2.95	$56.05
Huge Burger	20	$2.95	$59.00
Coney Dog	20	$1.99	$39.80
Chicken Littles	25	$3.50	$87.50
Total	**119**	**$14.87**	**$303.00**
Mean	**$2.48**		
Weighted Mean= total cost of all items sold / total sold =$303/119	**$2.55**		
Median= Porker Burger/Huge Burger = (19+20)/2	**19.5**		
Mode=Special with highest frequency or #sold = Chicken Littles	**Chicken Littles**		

Key definitions

Mean- the most common type of average that is compiled
Median- the midpoint of a set of scores
Mode-is the value that occurs most frequently
Average- One value that best represents a group of numbers or scores

Hi Mr. Kensley,

As requested, I have calculated and determined, the report of the day to demonstrate the bestselling special on the menu. I have sorted, copied and pasted the menu data as it identifies the name of each special, items sold and the cost. I have added two additional fields, the # of sold times cost and the % of total cost since the number of sold specials are relatively close or duplicated. We sold 119 specials which totaled $303 for the day with a weighted mean cost of $2.55. Since the frequency of # of sold duplicates on Huge Burger and Coney Dog, I recommend we use the weighted mean to get a better picture of the average cost instead of the $2.48 value. The mean shows a total cost /total number of specials (14.87/6). Since we are analyzing six specials, I used the median to see which two products fell in the midway area today. They were Huge Burger (sold 20 items) and Porker Burger (sold 19 items) which averaged 19.5 sold. Finally, Chicken Littles had the most sold with a mode of 25. Should we consider running a marketing campaign to get better distribution for Yummy Burger, and Baby Burger, as there % of total cost each is lower than 13% if this becomes a trend? I will await further directions.

ZTH/Floor Manager

Salkind, N. (2017). *Statistics for People Who (Think They) Hate Statistics* (6th ed.). Los Angeles, CA: Sage