

Lead 702
 Week 2
 Statistic Assignment
 Question #4
 Wendy Harmon

Special	Number Sold	Cost	Totals
Huge Burger	20	\$2.95	\$59.00
Baby Burgers	18	\$1.49	\$26.82
Chicken Littles	25	\$3.50	\$87.50
Porker Burger	19	\$2.95	\$56.05
Yummy Burger	17	\$1.99	\$33.83
Coney dog	20	\$1.99	\$39.80
Totals Sold	119		\$303.00

The best selling item is the Chicken Littles, with a mode of 25 being sold, for \$3.50 each, grossing a profit of \$87.50. Despite the fact that it is the highest priced special, it continues to lead the way in sales, surpassing the average of total sales.

The median which is also an average, is the midpoint for all scores, hence the median for all specials sold was 19.5.

That is the middle value of number of sales: 25 20 20 19 18 17. Because there were an even number of specials, the two middle values were added to find the average: $20 + 19 = 39$ divided by 2 = 19.5

The median cost for the specials was \$2.47

That is: \$3.50, \$2.95, \$2.95, \$1.99, \$1.99, \$1.49. Then $\frac{2.95 + 1.99}{2} = \frac{4.94}{2} = \2.47

With a total of 119 specials sold, the total value of all specials was \$303.00, for an average of \$2.55 for each special. Based on the median cost for the special being \$2.47, it can be said that the profit is eight cents per special.

$$\text{Mean} = \frac{\$59.00 + \$26.82 + \$87.50 + \$56.05 + \$33.83 + \$39.80}{119}$$

$$M = \frac{\$303}{119} = \$2.55 \text{ for each special.}$$