Student Work for Sneaker Problem

SUM		REVERSE SUM		AVERAGE	
1. Comfort	15	1. Comfort	39	1. Comfort	2.5
2. Price	19	2. Price	35	2. Price	3.2
3. Size	20	3. Size	34	3. Size	3.3
4. Quality	27	4. Quality	27	4. Quality	4.5
5. Brand	28	5. Brand	26	5. Brand	4.7
6. Type	35	6. Type	19	6. Type	5.8
7. Looks	36	7. Looks	18	7. Looks	6.0
8. Style	36	8. Style	18	8. Style	6.0

1. There is a relationship the sums at each rank for the SUM method and the REVERSE SUM method—they all total 54. Why is this true?

2. Determine what the sums at each rank for these two methods would total in general; in other words, if there were x number of lists and y number of characteristics listed on each list, what would the sums at each rank total? Justify your generalization.