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The Product Analysis of Men's Athletic Pants

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The purpose of this project was to determine how apparel construction affects the fit, performance, and cost of a garment.

To find the sizing, garments were measured at the waist, hip, in-seam, out-seam, and crotch before laundering and after 10 launderings. The original and washed measurements were compared to each other as well as the standard sizing measurement to determine fit for each brand. To determine the construction of the garments, we evaluated what kind of seams were used to construction each brand based on the Federal Standards for seam type and stitching classes. To compare garment labels, we looked for aesthetic similarities between our three brands, and they all had the same characteristics. Then we looked for differences in fiber content, country of origin, care requirements, fabric construction, and size, as well as differences in tag appearance based on color and writing. The cost to manufacture a pair of pants from each brand was determined based on the construction characteristics of the pants including material and trimmings, labor, packaging, as well as duties and taxes.

When comparing size and fit between the three men's athletic pants, none of them measured up to their standardized sizing chart. Russell's measurements on the original garment met the company's standard sizing chart, but they shrank more than the other two pants. The basic construction of all three of our garments are the same. The main costing difference between each garment is their country of origin.

Based on research, BCG is the overall best brand of athletic pants. All of BCG's measurements followed the standard sizing chart. It had the lowest rate of shrinkage averaging only an inch, while Nike and Russell both had flawed sizing. BCG's original pants fit their standard sizing chart before and after being washed, while both Nike and Russell shrank several inches after being washed. Although Nike is presumed best by many customers, their original pants had smaller measurements than the standard size. BCG also excelled in cost because they had the lowest selling price after all costs were added up. It performs the same functionalities as Russell and Nike, but BCG's material cost, packaging cost, and taxes are all cheaper.