

Factorial example

The U.S. Department of Education reports the salaries of professors at universities and colleges in the United States. The following data (in thousands of dollars) is adapted from the report for full-time faculty on 9-month contracts at not-for-profit institutions offering doctoral programs. Five samples were taken from each of the three professorial levels for both males and females.

Gender	Rank		
	Assistant Professor	Associate Professor	Full Professor
Male	75.4	94.8	133.1
	75.6	96.4	147.7
	76.6	89.7	143.3
	76.2	100.2	142.0
	76.1	91.5	126.3
Female	74.8	86.3	161.1
	70.6	91.0	141.4
	72.4	88.3	130.8
	70.5	83.0	145.0
	71.1	72.5	127.5