

Correlation and regression problems

1. The following data represent the years of experience X and salary Y (in thousand dollars) of a random sample of professional engineers (n = 27)

X	1	2	2	3	3	4	4	6	6	6	7	7	9	9	9	12	12
Y	25	28	37	31	40	36	43	40	43	51	42	55	41	51	60	50	64

13	14	18	18	20	21	22	22	25	25
52	66	53	70	70	60	61	71	58	74

- a. Find the coefficient of correlation r.
b. Is it sufficient sample evidence to indicate that there is linear correlation between the years of experience and salary?
c. Test the hypothesis that $\rho = 0.6$ against the alternative $\rho > 0.6$. Use $\alpha = 0.01$
2. A chemical engineer is studying the effect of temperature on the yield of a certain product in chemical process. The process is run 10 times and the following data is observed for the temperature of each process X and corresponding yield Y.

Temperature X (in °C)	95	110	118	124	145	140	185	190	205	222
Yield (in kgs)	108	126	102	121	118	155	158	178	159	184

The following information is available: $\sum x = 1534$, $\sum x^2 = 252,684$, $\sum y = 1409$, $\sum y^2 = 206,319$.

$$\sum xy = 226,463$$

- a. Find the coefficient of correlation r.
b. Is it sufficient sample evidence to indicate that there is linear correlation between temperature and yield of chemical product?
c. Test the hypothesis that $\rho = 0.8$ against the alternative $\rho \neq 0.8$. Use $\alpha = 0.05$

Correlation And Regression Problems And Solutions

JL Elias



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