

Source: "Life expectancy" by M. E. Wilson and L. E. Mather, Letter to the editor, *Journal of the American Medical Association*, 229, No. 11, 1974, 1421-1422.) The 50 pairs of observations below arose during a study carried out by Dr. L. E. Mather and Dr. M. E. Wilson. The variables are

- X Age of person at death (to nearest year);
- Y Length of lifeline on left hand in centimeters (to nearest 0.15 cm).

Many people believe that the length of one's life is linearly related to the length of one's lifeline. What light do these data throw on such a belief?

X	Y	X	Y
19	9.75	68	9.00
40	9.00	69	7.80
42	9.60	69	10.05
42	9.75	70	10.50
47	11.25	71	9.15
49	9.45	71	9.45
50	11.25	71	9.45
54	9.00	72	9.45
56	7.95	73	8.10
56	12.00	74	8.85
57	8.10	74	9.60
57	10.20	75	6.45
58	8.55	75	9.75
61	7.20	75	10.20
62	7.95	76	6.00
62	8.85	77	8.85
65	8.25	80	9.00
65	8.85	82	9.75
65	9.75	82	10.65
66	8.85	82	13.20
66	9.15	83	7.95
66	10.20	86	7.95
67	9.15	88	9.15
68	7.95	88	9.75
68	8.85	94	9.00