Modern Bayesian practice uses various strategies to consruct an appropriate "prior" $g(\mu)$ in the absence of prior experience, leaving many statisticians unconvinced by the resulting Bayesian inferences. Our second example ilustrates the difficulty.

Table 3.1 *Scores from two tests taken by 22 students,* mechanics *and* vectors.

	1	2	3	4	5	6	7	8	9	10	11
mechanics	7	44	49	59	34	46	0	32	49	52	44
vectors	51	69	41	70	42	40	40	45	57	64	61
	12	13	14	15	16	17	18	19	20	21	22
mechanics	36	42	5	22	18	41	48	31	42	46	63
vectors	59	60	30	58	51	63	38	42	69	49	63

'

Table 3.1 shows the scores on two tests, mechanics and vectors, achieved by $n = 22$ students. The sample correlation coefficient between the two scores is $\hat{\Theta} = 0.498$,

$$\hat{\theta} = \sum_{i=1}^{22}(m_i - \bar{m})(v_i - \bar{v}) / \left[\sum_{i=1}^{22}(m_i - \bar{m})^2 \sum_{i=1}^{22}(v_i - \bar{v})^2\right]^{1/2}$$