TABLE **3.3** **Sample covariance calculation with actual data**

Observation	*Education,* x_i	$x_i - \bar{x}$	*Earnings,* y_i	$y_i - \bar{y}$	$(x_i - \bar{x})(y_i - \bar{y})$
1	0	−11.7	0	−28,415	332,455.5
2	0	−11.7	0	−28,415	332,455.5
3	8	−3.7	10,500	−17,915	66,285.5
4	10	−1.7	0	−28,415	48,305.5
5	11	−0.7	0	−28,415	19,890.5
6	11	−0.7	29,000	585	−409.5
7	11	−0.7	0	−28,415	19,890.5
8	12	0.3	50,000	21,585	6,475.5
9	12	0.3	3,800	−24,615	−7,384.5
10	12	0.3	0	−28,415	−8,524.5
11	12	0.3	12,500	−15,915	−4,774.5
12	13	1.3	27,500	−915	−1,189.5
13	13	1.3	64,000	35,585	46,260.5
14	13	1.3	0	−28,415	−36,939.5
15	14	2.3	57,000	28,585	65,745.5
16	16	4.3	30,000	1,585	6,815.5
17	16	4.3	92,000	63,585	273,415.5
18	16	4.3	80,000	51,585	221,815.5
19	16	4.3	50,000	21,585	92,815.5
20	18	6.3	62,000	33,585	211,585.5
Sum	234	0	568,300	0	1,684,990.0
Average	11.7	0	28,415	0	