

## Practice Set 24 Simple Linear Regression Analysis

- I. Having determined that age affects sales performance, Darin Jones wants to estimate sales commissions using the data presented in the chapter 23 practice set.
- A. Determine the regression equation to 3 significant digits.

Age	Sales Commissions (000)	xy	x <sup>2</sup>	y <sup>2</sup>
23	30	690	529	900
25	25	625	625	625
34	20	680	1,156	400
29	24	696	841	576
21	35	735	441	1,225
32	22	704	1,024	484
23	34	782	529	1,156
24	33	792	576	1,089
27	27	729	729	729
<u>22</u>	<u>30</u>	<u>660</u>	<u>484</u>	<u>900</u>
260	280	7,093	6,934	8,084

- B. Estimate sales commissions for a group of 24-year-old salespeople.