3 The back-to-back stem-and-leaf diagram shows the annual salaries, in dollars, of 27 employees at each of two companies, Browns and Greens.

Browns									Greens								
(3)					9	8	4	30	6	8							(2)
(7)	8	8	5	3	3	1	0	31	2	4	5	8					(4)
(7)	9	7	6	4	2	2	0	32	3	6	6	7	9				(5)
(6)		8	7	5	5	3	1	33	1	1	3	7	8	8	9	9	(8)
(3)					4	2	2	34	0	2	3	5	6	9			(6)
(1)							7	35	3	7							(2)

Key: 6|32|7 means \$32 600 for Browns and \$32 700 for Greens.

(a) Find the median and interquartile range for the annual salaries of employees at Browns. [3]

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The annual salary of an employee at Browns is denoted by x thousand dollars and the annual salary of an employee at Greens is denoted by y thousand dollars. It is given that, for the 27 employees at each of the companies,

$$\Sigma x = 878.3, \quad \Sigma x^2 = 28\,616.09, \quad \Sigma y = 896.5, \quad \Sigma y^2 = 29\,815.63.$$

(b) Find the mean and standard deviation of the annual salaries of these 54 employees. [5]

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