

P Chapter 2 Project

Fast Food Comparison

For three fast-food restaurants, a random sample of service times (in seconds) was taken. The results are to the right.

1. For each restaurant's service times, do the following.
 - a. Create a frequency distribution with the given classes. Include the frequency, class boundaries, relative frequency, and cumulative frequency of each class.

Class
30–49
50–69
70–89
90–109
110–129

- b. Use the frequency distribution to construct a histogram of the data.
2. Based on the graphical descriptions of the data you created in part 1, which fast-food restaurant do you believe consistently has the shortest service times? Explain why.

Service Times (in Seconds)		
Kim's Kajun Kitchen	Chez Carolyn	Emily's Eatery
111	109	99
94	84	63
57	93	53
80	123	82
78	97	75
109	56	112
92	79	65
34	57	55
67	32	65
122	68	86
95	45	94
46	99	87
103	82	62
110	76	68
93	54	61
86	84	49
75	86	37
49	73	46
61	79	65
82	67	86
76	96	48
92	112	95
65	94	33
92	82	49
94	96	76
106	125	35
112	98	68
83	120	57
72	78	41
119	63	49