Challenge Problem	Month			
	1			
Math Dotoctive	2			
Infull Delective	3			
The Parking Meter Caper	4			
	5			
In May, 1978, Brink's, Inc. was awarded a contract to	6			
collect coins from approximately /0,000 parking				
Department of Finance, NV City officials become	0			
sumicious that not all of the manay collected was being	10			
turned in In April of 1082 five Prink's collectors were	11			
arrested and charged with grand larceny. They were	12			
convicted	13			
	14			
The City of New York sued Brink's for negligent	15			
supervision of its employees seeking to recover the	16			
stolen money The court ruled that Brink's had to pay	17			
back all the stolen money. However, the actual amount of	18			
the shortage was in question. So the judge ruled that	19			
Brink's had to pay back a figure that was a reasonable	20			
estimate of the amount stolen.	21			
	22			
The only available information is presented	23			
in the table on the right. Decide how much	24			
is a reasonable amount for Brink's to pay	25 26			
the City of New York.	20			
	28			
	20			
Notes:	30			
1. "Month" refers to the month of the collection.	31			
Month 1 is May, 1977. Month 47 is March, 1981.	32			
	33			
2. "Contractor " refers to the amount collected from	34			
meters by a contractor service hired by New York City.	35			
From Month 13 to Month 36 that contractor was Brink's.	36			
	37			
* Indicates the months that Brink's collected coins from	38			
the parking meters of New York City.	39			
	40			
3. "City" refers to the collections performed by trusted	41			
meter collectors.	42 43			
	43			
Reference: M.O. Finkelstein and B. Levin, <i>Statistics for</i>	45			
Lawyers, Springer-Verlag, 1990, 37-41.	46			
	47			
	L			

Ionth	Contractor			City
1		\$	2,224,277	\$6,729
2		\$	1,892,672	\$5,751
3		\$	1,468,074	\$6,711
4		\$	1,618,966	\$7,069
5		\$	1,509,195	\$7,134
6		\$	1,511,014	\$5,954
7		\$	1,506,977	\$5,447
8		\$	1,520,443	\$6,558
9		\$	1,070,936	\$5,222
10		\$	1,941,901	\$4,150
11		\$	1,602,841	\$6,765
12		\$	1,246,483	\$6,681
13	*	\$	1,330,143	\$7,016
14	*	\$	1,525,370	\$7,440
15	*	\$	1,312,257	\$6,264
16	*	\$	1,494,717	\$7.337
17	*	\$	1.385.822	\$7.271
18	*	\$	1.557.598	\$6.694
19	*	ŝ	1 469 066	\$5,795
20	*	\$	1.547.011	\$7,105
21	*	\$	1.565.671	\$6.613
22	*	\$	1 124 576	\$5,258
23	*	\$	1 773 806	\$5,250 \$7.664
23	*	\$	1,652,490	\$6,716
25	*	¢ 2	1,052,490	\$7,614
25	*	φ \$	1,744,556	\$7,014 \$7,652
20	*	ф Ф	1,078,280	\$7,032 \$7,513
21	*	φ Φ	1,030,397	\$7,515
20	*	Ф Ф	1,736,847	\$7,832
29	*	ф Ф	1,370,383	\$0,545 \$6,855
21	*	с Ф	1,840,508	\$0,855
22	*	с Ф	1,740,099	\$7,182
32 22	*	¢ J	1,085,011	\$0,830
33	~ *	\$ ©	1,/94,46/	\$6,552 \$7,219
34	*	2	1,695,017	\$7,318
35	~ 	\$	1,6/1,626	\$6,679
36	Ť	\$	1,566,107	\$6,637
3/		\$	1,972,964	\$7,912
38		\$	1,934,369	\$7,379
39		\$	1,881,303	\$7,803
40		\$	1,733,339	\$8,126
41		\$	1,825,021	\$7,489
42		\$	1,918,247	\$7,986
43		\$	1,664,116	\$6,020
44		\$	1,941,848	\$6,442
45		\$	1,619,657	\$7,937
46		\$	1,648,605	\$6,685
47		\$	1,837,134	\$7,470
		A	pplied Mat	h Upgrade
				1. Tables

Unit 4. Using Graphs, Charts, and Tables *Math Detective*

©2002 Samuel Eugene Smith