

Name \_\_\_\_\_ Date \_\_\_\_\_ Period \_\_\_\_\_

AP Statistics Practice

**Displaying Data**

1. In 1997, there were 12,298,000 undergraduate students in U.S. colleges. According to the U.S. Department of Education, there were 127,000 American Indian or Alaskan Native, 737,000 Asian or Pacific Islander, 1,380,000 non-Hispanic black, 1,108,000 Hispanic, and 8,682,000 non-Hispanic white students. In addition, 265,000 foreign undergraduates were enrolled in U.S. colleges.

(a) Each number, including the total, is rounded to the nearest thousand. Separate rounding may cause roundoff errors, so that the sum of the counts does not equal the total given. Are roundoff errors present in these data? Explain.

(b) Present the data in a graph.

2. How much oil wells in a given field will ultimately produce is key information in deciding whether to drill more wells. Here are the estimated total amounts of oil recovered from 64 wells in the Devonian Richmond Dolomite area of the Michigan basin, in thousands of barrels.

21.7	53.2	46.4	42.7	50.4	97.7	103.1	51.9	43.4	69.5	156.5	34.6	37.9
12.9	2.5	31.4	79.5	26.9	18.5	14.7	32.9	196.0	24.9	118.2	82.2	35.1
47.6	54.2	63.1	69.8	57.4	65.6	56.4	49.4	44.9	34.6	92.2	37.0	58.8
21.3	36.6	64.9	14.8	17.6	29.1	61.4	38.6	32.5	12.0	28.3	204.9	44.5
10.3	37.7	33.7	81.1	12.1	20.1	30.5	7.1	10.1	18.0	3.0	2.0	

Descriptive statistics, a stemplot, and a boxplot are provided for these data on the next page. Use the information provided to describe the important features of this distribution.

	N	MEAN	MEDIAN	TRMEAN	STDEV	SEMEAN
OilRecvd	64	48.25	37.80	43.50	40.24	5.03
	MIN	MAX	Q1	Q3		
OilRecvd	2.00	204.90	21.40	60.75		

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14  0 000011111111111
(20) 0 22222223333333333333
30  0 444444455555555
16  0 6666667
 9  0 8899
 5  1 01
 3  1
 3  1 5
 2  1
 2  1 9
 1  2 0

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