

Probability and Statistics (MATH 1530-017)

Attendance Quiz, January 29, 2009

NAME _____ E-NUMBER _____

Circle the letter of the best answer. The problems are worth 2 points each.

1. Shown below are summary statistics for the number of camp sites at public parks in Vermont.

N	Mean	Median	StdDev	Min	Max	Q_1	Q_3
46 parks	62.78	43.50	56.196	0	275	28	78

Which of the following statements is closest to the truth?

- (a) The distribution of the number of camp sites per park is fairly symmetric.
 - (b) The distribution of the number of camp sites per park is skewed right with at least one outlier.
 - (c) 23 parks have at most 63 camp sites.
 - (d) The distribution of the number of camp sites per park is skewed left with no outliers.
2. Here is a stem-and-leaf display showing profits as a percent of sales for 29 of the 500 largest U.S. corporations. The stems are split; each stem represents a span of 5%, from a loss of 9% to a profit of 25%. What is the median value?

Stem-and-leaf of profit N = 29

Leaf Unit = 1.0

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-0 | 99
-0 | 4321
 0 | 111123444
 0 | 5555679
 1 | 00113
 1 |
 2 | 2
 2 | 5
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- (a) 4% profit
- (b) 5% profit
- (c) 5% loss
- (d) 50% profit
- (e) 4% loss