Name: KEY

Math 1040-001 Quiz 4 March 2, 2016

1. (5 points) Find the quartiles for the following data set of tuition costs (in thousands of dollars) for 25 universities:

17	18	19	20	20	23	24	26	29	29	30	30	34
35	36	36	38	39	39	43	44	44	44	45	45	

 $\mathbf{Q1} = 34$

 $\mathbf{Q2} = 23.5$

Q3 = 41

2. (5 points) Sketch a Box-and-Whisker plot using the same data.



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3. (5 points)

What is the probability of rolling 9 or more with a pair of dice? (Hint: Draw a tree diagram of all the possibile outcomes.)



$$P(9 \text{ or more}) = \frac{10}{36}$$

4. (5 points) Given the following table of results of a telephone survey of social networking users, fine the empirical probability that a user is between the ages of 36 and 49.

Age	Frequency				
18 to 22	150				
23 to 35	300				
36 to 49	250				
50 to 65	200				
65 and over	50				

Total number of people surveyed: 950.

Total number between 36 and 49: 250.

P(36 to 49) = 250/950.

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