Math 207
Introduction to Statistics

1. For the following list, convert the numbers to standard units: 1, 3, 4, 4, 5, 7.

2. Make a sketch then find the area under the normal curve —

a) to the right of 1.0

b) to the left of -1.0

c) to the left of 2.0

d) between -1 and 2

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3. For the list of numbers below, calculate the 25th percentile, median and 75th percentile. 3, 8, 6, 14, 0, -4, 2, 12, -7, -1, -10.

4. True or false: The smallest the sd can be is 0 but there is not largest possible value.

5. Given that a sample is approximately normal with a mean of 25 and SD of 2, the approximate percentage of data values that are expected to fall betwen 23 and 27 is _____. The approximate percentage of data values that are expected to fall betwen 19 and 31 is _____.

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