REVIEW FOR STATS TEST

- 1) Fifty tickets are numbered 1 50 and are placed in a box. You pull out one ticket.
- a) What's the probability that you'll randomly select a ticket with an even number or a multiple of 5?
- b) What's the probability that you'll randomly select an odd number and a multiple of 2?

2) What is the probability of getting 2 face cards if 2 cards are drawn from a wellshuffled deck without replacement?

Find the median, the Q1 and Q3 of the set of data:
 84, 79, 90, 73, 95, 88, 92, 81, 67

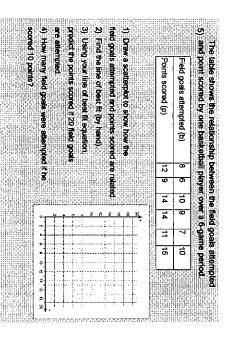
Then make a well constructed box and whiskers plot.

What is the Inner Quartile Range?

4) Find the number at the 20th and the 80th percentile of the set of data:

7, 16, 8, 5, 10, 9, 3, 4, 11, 1

Which number is the outlier?



6)
Assume that the data which reflects the "Heights of Wamer" is normally distributed.

Mean = 64.5 in. Standard Deviation = Heights of Women

Draw a normal distribution curve for this data. Include 3 standard deviations from the mean in each direction.

What percentage of women sould be 67 inches tall or taller?

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Education and Salary of Employees	Under \$20,000	\$20,000 to \$30,000	Over \$30,000
Less than High School	68	36	2
High School	112	97	14
Some Callege	101	193	142
College Degree 13		177	245

P(employee has less than a high school education)

P(employee earns under \$20,000)

P(employee earns over \$30,000 and has less than a high school education)
P(employee earns over \$30,000 | employee has only high school education)
P(employee has only a high school education or less | employee earns over \$30,000)

Students that took the SAT in 2012 had a mean score of 514 on the math

The standard deviation for this section was 114.

If a student scored a 340, what was his z-score?

A school administrator made the following observations about the weather and schools closing.

During the winter, there was heavy snow on 40% of the days.

On the days that there was heavy snow, schools closed 80% of the time.

On the days there was light snow, schools were open 70% of the

Create a tree diagram to find the probability that a day will start out with heavy snow and school will be open.

HW Page 704 6-16, 28-32, 42-48 (no clac), 55-59 (no calc),