

Test 5
Stats and Probability

- 1) Make a stem and leaf plot for the following data from my 3rd hour grade book
73, 98, 65, 74, 84, 86, 89, 90, 62, 78, 92, 47, 72, 80, 30, 82
- 2) What is the median score for this class?
- 3) What is the mean of this class?
- 4) Which of the above values (mean or median) is a better representation of my class? WHY DID YOU CHOOSE THE ONE YOU CHOSE?
- 5) Breanna, a student in my 7th hour class, has a 77%. She wants to know what she needs to get on the final exam in order to have a B in my class. The final is worth 20% of her grade. What should I tell her?
- 6) Going into the final exam, Heather in my 3rd hour has a 98, 90, 85, 82, and 93. Is there any way the next test can bring her A down to a B? If so, what score would pull her down to a B?

- 7) The test for anemia (it's a blood disease) is 94% accurate. Approximately 30% of the population has anemia. Make a tree diagram that represents this situation
- a) What is the probability that a person who has the disease tests negative for it?
- b) What is the probability that someone who does not have the disease, tests negative?
- 8) Miss Coombs has 5 kids in her math club and has to arrange 3 kids for a photo. She's not sure which order she wants them in, nor does she know which 3 kids she wants in the photo... How many arrangements can she position the kids in?
- 9) Now that question 8 is done, I thought it over... does it really matter what order the kids stand in? Maybe not. I've changed my mind ☺ how many ways can I pick 3 kids for a photo if there are 5 to choose from now?
- 10) a) You're playing cards with your sister. It's a rather silly game of luck... The first person to draw an ace, wins. What is the probability that someone wins on the very first pick?
- b) Let's assume she didn't get an ace, but she does keep her card. Now what's the probability that YOU'll draw an ace?
- c) The more and more times you and your sis draw cards and do NOT draw an ace... how will the probability change if you continue to not return the already drawn cards?

1st Hour Topics 1

Name: _____