MAT 1372-6556 Statistics with Probability Quiz 12 Fall 2012

1. A severely bent coin is flipped 12 times (n=12). The binomial random variable X counts the number of heads. The chance of heads is much less than tails: p=.2. Make use of the definition but do not evaluate or use technology to answer:
2. *P{X=0}*
3. *P{X=5}*
4. Write down the appropriate Excel formula using the function binomdist(i,n,p, true or false) but do not evaluate:

given a true/false exam with 20 questions, determine the chance that you will, by just guessing,

1. get exactly half right;
2. get less than 25% right;
3. pass (get 60% or more).