Here are some questions to answer using the binomial distribution.

1. What is the probability you roll exactly one six in four rolls?
2. Mendel Problems: A couple has four children. Recall each parent gives one of their genes to their child. If both parents are heterozygous with respect to eye color $(B b)$, what is the probability three of their kids have brown eyes (i.e. have at least one $B$ ?
3. 6th Grade Problems: To raise money for the field trip, you have to sell 5 candy bars. There are 30 houses within walking distance, each of which will buy a candy bar with probability .4 and won't with probability . 6 . With no other opportunities to sell candy, what is the probability your parents will have to buy some of the candy bars?
