152 Quiz 10 Name: _____

Recall that if p is the probabilty of "success" in a single trial of a binomial experiment, then the probabilty of k successes and $n-k$ failures in n indepent trials is

$$\binom{n}{k} p^k (1-p)^{n-k}$$

Suppose a basketball player makes 80% of his free throws.

1. Find the probabilty that he makes exactly 8 out of ten free throws.

2. Find the probability that he makes exactly 9 out of ten free throws.

3. Find the probability that he makes all ten free throws.

4. Find the probability that he makes at least 8 out of ten free throws.